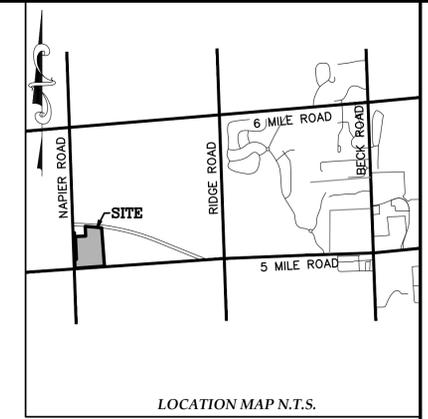


PRELIMINARY SITE PLAN  
for:  
**NORTHVILLE LUMBER**  
NORTHVILLE TOWNSHIP, WAYNE COUNTY, MICHIGAN

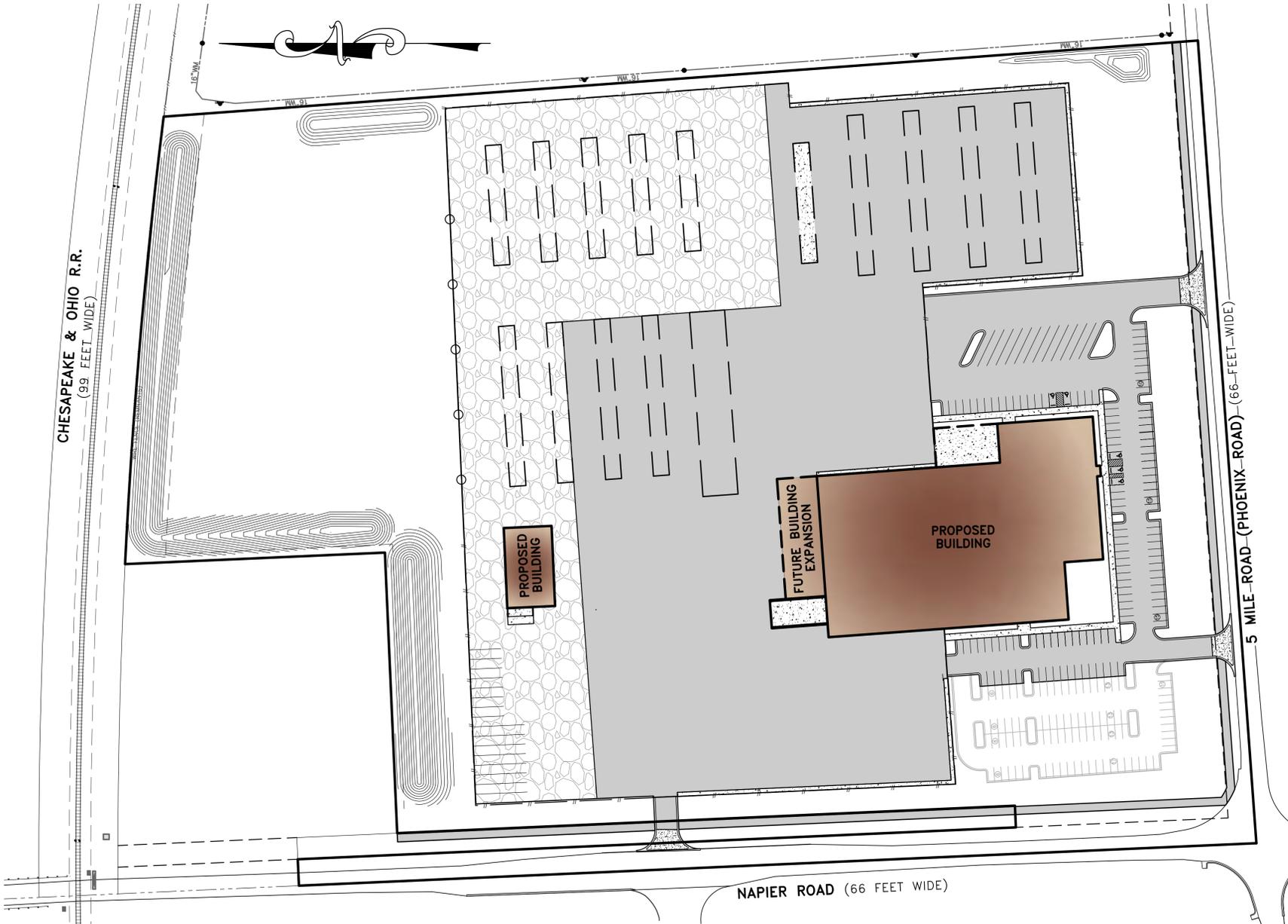


RESIDENTIAL  
Site Condominium  
for Preliminary  
Plot Plans

COMMERCIAL  
Site Planning  
Site Preparation  
Industrial & Multi-Unit  
Land Surveying

**GREENTECH**  
ENGINEERING, INC.  
CIVIL ENGINEERS & LAND SURVEYORS

51147 W. Pontiac Trail, Wixom, MI 48393  
Phone: (248) 668-0700 Fax: (248) 668-0701



- SHEET INDEX:**
- 1 TITLE SHEET
  - 2 DIMENSION & PAVING PLAN
  - 3 EXISTING CONDITIONS & DEMOLITION PLAN
  - 4 GRADING PLAN-SOUTH
  - 5 GRADING PLAN-NORTH
  - 6 UTILITY PLAN
  - 7 STORMWATER MANAGEMENT PLAN
  - 8 STORMWATER MANAGEMENT PLAN
  - 9 CIRCULATION PLAN
- L-1 LANDSCAPE PLAN
  - L-2 LANDSCAPE PLAN
  - L-3 WOODLAND PLAN
  - L-4 TREE LIST
  - L-5 LANDSCAPE PLAN
  - 1 OF 1 PHOTOMETRIC SITE PLAN
  - PE-1 ELEVATION PLAN
  - FFP-8 FLOOR PLAN



**APPLICANT/OWNER:**  
NORTHVILLE LUMBER COMPANY  
615 BASE LINE ROAD  
NORTHVILLE, MICHIGAN 48167  
PHONE: (248)-349-0220  
CONTACT: STUART OLDFORD

**ENGINEER/SURVEYOR:**  
GREENTECH ENGINEERING, INC.  
51147 PONTIAC TRAIL  
WIXOM, MI 48393  
CONTACT: DAN LECLAIR, P.E.  
(248) 668-0700

**LANDSCAPE ARCHITECT:**  
ALLEN DESIGN  
ATTN: JIM ALLEN  
557 CARPENTER  
NORTHVILLE, MI 48167  
(248) 467-4668  
jca@wideopenwest.com

**LEGAL DESCRIPTION:**

PART OF THE SOUTHWEST 1/4 OF SECTION 18, T.1S., R.8E., NORTHVILLE TOWNSHIP, WAYNE COUNTY, MICHIGAN, DESCRIBED AS:  
BEGINNING AT THE SOUTHWEST CORNER OF SAID SECTION 18; THENCE N02°31'45"W 1200.00 FEET; ALONG THE WEST LINE OF SAID SECTION, SAID LINE ALSO BEING THE CENTERLINE OF NAPIER ROAD, 66 FEET WIDE; THENCE N87°28'15"E 33.00 FEET; THENCE S02°31'45"E 900.00 FEET; THENCE N87°28'15"E 27.00 FEET; THENCE N02°31'45"W 774.19 FEET; THENCE N87°28'15"E 350.00 FEET; THENCE N02°31'45"W 325.62 FEET TO THE SOUTHERLY LINE OF THE CHESAPEAKE AND OHIO RAILROAD RIGHT-OF-WAY, 99 FEET WIDE; THENCE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE, 559.85 FEET ALONG A CURVE TO THE RIGHT, SAID CURVE HAVING A RADIUS OF 7472.79 FEET, A DELTA ANGLE OF 04°17'33", AND A CHORD BEARING S85°02'58"E 559.72 FEET; THENCE S04°11'28"E 1298.39 FEET TO THE SOUTH LINE OF SAID SECTION 18, SAID SOUTH LINE ALSO BEING THE CENTERLINE OF PHOENIX ROAD (5 MILE), 66 FEET WIDE; THENCE ALONG SAID SOUTH LINE, S85°48'32"W 1003.03 FEET TO SAID SOUTHWEST CORNER OF SAID SECTION 18 AND TO THE POINT OF BEGINNING, CONTAINING 27.39 ACRES, AND SUBJECT TO RIGHTS-OF-WAY OVER NAPIER & PHOENIX ROADS, AND SUBJECT TO ANY EASEMENTS AND RESTRICTIONS OF RECORD.

CLIENT: NORTHVILLE LUMBER

**TITLE SHEET**

NORTHVILLE LUMBER - PARCEL 77-071-99-0002-701  
TOWNSHIP: 1 S RANGE: 8 E.  
SECTION: 18 NORTHVILLE TOWNSHIP WAYNE COUNTY MICHIGAN

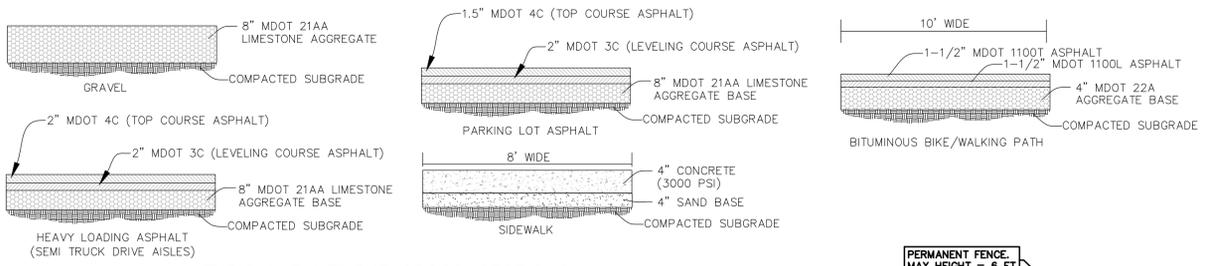
REVISED

DATE: 10-28-2022  
DRAWN BY: RMS  
CHECKED BY: LW

FBK: -  
CHF: MM  
SCALE HOR 1"= 80 FT.  
VER 1"= 40 FT.

1  
20-372



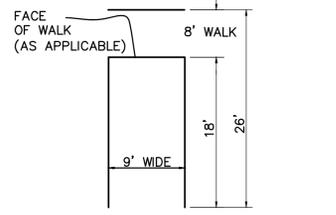


**TYPICAL PAVEMENT CROSS-SECTIONS**  
NOT TO SCALE

- WAYNE COUNTY LEGEND**
- SAW CUT FULL DEPTH THE EXISTING PAVEMENT AT 1.0-FOOT FROM THE BACK OF CURB AND REMOVE THE PAVEMENT AND THE CURB ALONG THE ENTIRE LENGTH OF THE DRIVE APPROACH OR AS DIRECTED BY THE COUNTY ENGINEER.
  - CONSTRUCT THE DRIVE APPROACH OPENING PER WAYNE COUNTY DETAIL D-6 OR AS DIRECTED BY THE COUNTY ENGINEER.
  - TIE THE NEW PAVEMENT TO THE EXISTING PAVEMENT WITH 18-INCH LONG #5 EPOXY COATED REBAR AT 18-INCH ON CENTER PER WAYNE COUNTY DETAIL RS-2 OR AS DIRECTED BY THE COUNTY ENGINEER.
  - CONSTRUCT THE PROPOSED DRIVE APPROACH WITH MINIMUM 8-INCH NON-REINFORCED CONCRETE WITH INTEGRAL STRAIGHT CURB TYPE "3" PER WAYNE COUNTY DETAIL RS-3 OVER 6-INCH MINIMUM OF 21AA AGGREGATE BASE COURSE COMPACTED IN PLACE TO A MINIMUM OF 95% DENSITY OF MAXIMUM UNIT WEIGHT PER WAYNE COUNTY DETAIL D-6 OR AS DIRECTED BY THE COUNTY ENGINEER.
  - CONSTRUCT THE PROPOSED DRIVE APPROACH WITH 6% MAXIMUM SLOPE.
  - RESTORE THE ROAD-OF-WAY PER NOTE 3 IN THE WAYNE COUNTY GENERAL NOTES OR AS DIRECTED BY THE COUNTY ENGINEER.

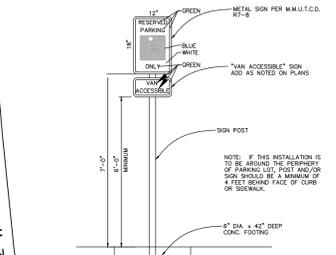


**SITE STATISTICS:**  
 ZONED: I-1, INDUSTRIAL DISTRICT  
 POTENTIAL USE GROUPS: LIGHT INDUSTRIAL  
 CONSTRUCTION TYPE: II-B (UNPROTECTED)  
 GROSS SITE AREA: 432,375 S.F. (6.44 ACRES)  
 BUILDING HEIGHT: 46'-0" T.O.M.  
 45'-0" T.O.M.  
 BUILDING SETBACKS:  
 FRONT - 25'  
 REAR - 50'  
 SIDE - 20'



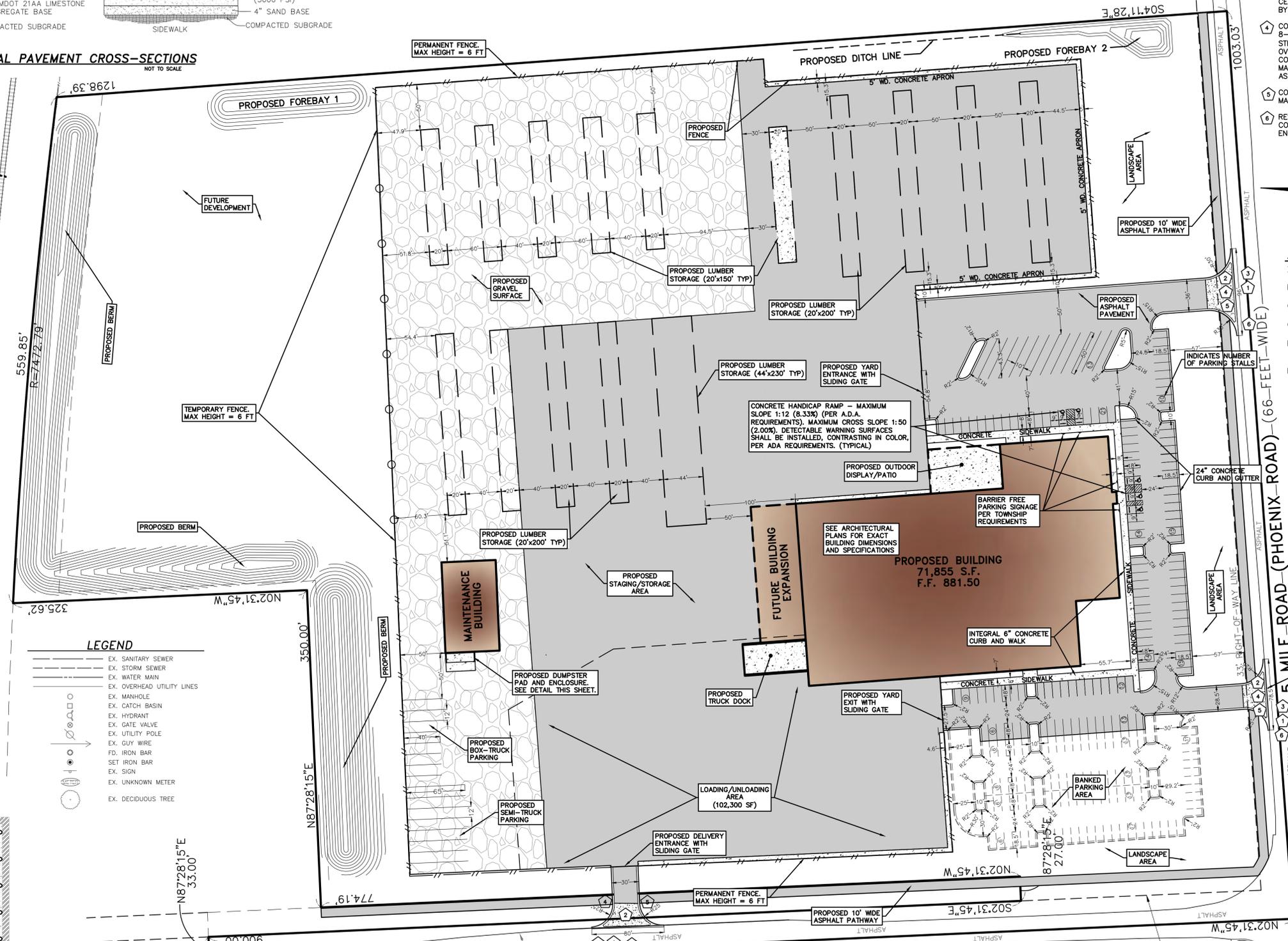
**TYPICAL PARKING STALL DETAIL**  
NOT TO SCALE

CONCRETE APPROACH WITH INTEGRAL CURB PER NORTHVILLE TOWNSHIP REQUIREMENTS. CURB TYPE TO MATCH EXISTING IN R.O.W. CONCRETE JOINING PER M.D.O.T. AND CITY REQUIREMENTS. TIE INTO EXISTING CURB AT ENDS PER TOWNSHIP AND M.D.O.T. STANDARDS.

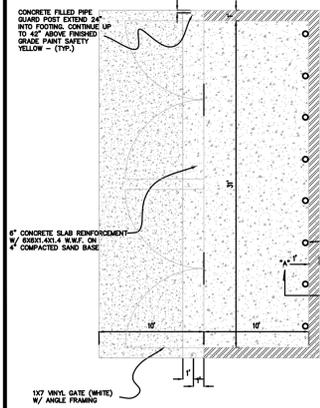


**BARRIER FREE SIGN**  
NOT TO SCALE

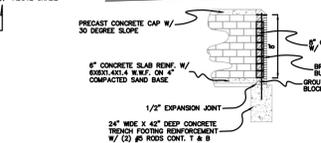
CHESAPEAKE & OHIO R.R.  
(99 FEET WIDE)



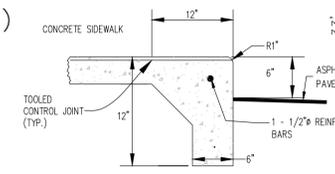
- LEGEND**
- EX. SANITARY SEWER
  - EX. STORM SEWER
  - EX. WATER MAIN
  - EX. OVERHEAD UTILITY LINES
  - EX. MANHOLE
  - EX. CATCH BASIN
  - EX. HYDRANT
  - EX. GATE VALVE
  - EX. UTILITY POLE
  - EX. GUY WIRE
  - FD. IRON BAR
  - SET IRON BAR
  - EX. SIGN
  - EX. UNKNOWN METER
  - EX. DECIDUOUS TREE



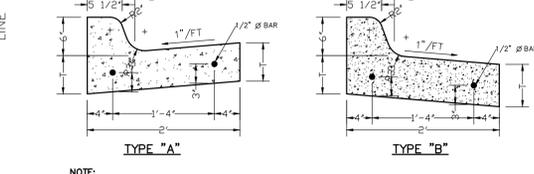
**PLAN OF DUMPSTER ENCLOSURE**  
NO SCALE



**SECTION THRU DUMPSTER ENCLOSURE**  
NO SCALE



**INTEGRAL SIDEWALK AND CURB**  
NOT TO SCALE



**ON SITE CURB**  
NOT TO SCALE

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

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**DIMENSION & PAVING PLAN**  
 NORTHVILLE LUMBER - PARCEL 77-071-99-0002-701  
 SECTION 18  
 TOWNSHIP 1 S  
 RANGE: 8 E.  
 WAYNE COUNTY  
 MICHIGAN

CLIENT: NORTHVILLE LUMBER  
 REVISED  
 DATE: 10-28-2022  
 DRAWN BY: RMS  
 CHECKED BY: LW  
 FBK: -  
 CHF: MM  
 SCALE: HOR 1"=60 FT.  
 VER 1"=6 FT.  
 2  
 20-372

**BENCHMARKS:**

- SITE BM #1**  
BENCH TIE ON SOUTH SIDE OF UTILITY POLE, 425'± EAST OF CENTERLINE OF NAPIER ROAD  
ELEVATION: 876.69 N.A.V.D.88 DATUM
- SITE BM #2**  
GEAR PIN IN SOUTHWEST SIDE OF POWER POLE, NORTHEAST CORNER OF NAPIER ROAD AND 5 MILE ROAD  
ELEVATION: 874.12 N.A.V.D.88 DATUM
- SITE BM #3**  
BENCH TIE ON NORTHEAST FACE OF UTILITY POLE, 800'± NORTH OF CENTERLINE 5 MILE ROAD WEST SIDE OF NAPIER ROAD  
ELEVATION: 894.08 N.A.V.D.88 DATUM
- SITE BM #4**  
NAIL IN NORTH SIDE OF TREE (#3739), NORTHWEST CORNER OF PROPERTY  
ELEVATION: 899.23 N.A.V.D.88 DATUM

**LEGEND**

- EX. SANITARY SEWER
- EX. STORM SEWER
- EX. WATER MAIN
- EX. OVERHEAD UTILITY LINES
- EX. MANHOLE
- EX. CATCH BASIN
- EX. HYDRANT
- EX. GATE VALVE
- EX. UTILITY POLE
- EX. GUY WIRE
- FD. IRON BAR
- SET IRON BAR
- EX. SIGN
- EX. UNKNOWN METER
- EX. DECIDUOUS TREE

**GRADING AND DRAINAGE LEGEND:**

- 700.00 → PROPOSED SPOT GRADE ELEVATION
- DBL = DROP BRICK LEDGE
- TP = TOP OF PAVEMENT
- TW = TOP OF WALK
- TC = TOP OF CURB
- G = GUTTER
- T/ML = FINISH GRADE AT TOP OF RETAINING WALL
- B/ML = FINISH GRADE AT BOTTOM OF RETAINING WALL
- FG = FINISH GRADE
- FF = FINISH FLOOR
- = OVERLAND FLOW DIRECTION
- ↔ = EMERGENCY 100YR OVERLAND OVERFLOW ROUTE
- ↔ = PROPOSED SWALE

**LIMITS OF DISTURBANCE**  
TOTAL AREA OF DISTURBANCE = 25.0 AC±

**RESTORATION NOTE:**

THE CONTRACTOR SHALL RESTORE AREAS DISTURBED FROM HIS CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER; AND TO THE SATISFACTION OF THE OWNER. LANDSCAPE AREAS REQUIRING RESTORATION SHALL INCLUDE MIN. 3" TOPSOIL AND SOD. PAVEMENT AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, WITH THE APPLICABLE CROSS-SECTION TO MATCH EXISTING.

**GENERAL NOTES:**

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF NORTHVILLE TOWNSHIP.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND/OR OBTAIN ANY INFORMATION NECESSARY REGARDING THE PRESENCE OF UNDERGROUND UTILITIES WHICH MIGHT AFFECT THIS JOB.

**EARTHWORK BALANCING NOTE:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

**HATCH LEGEND**

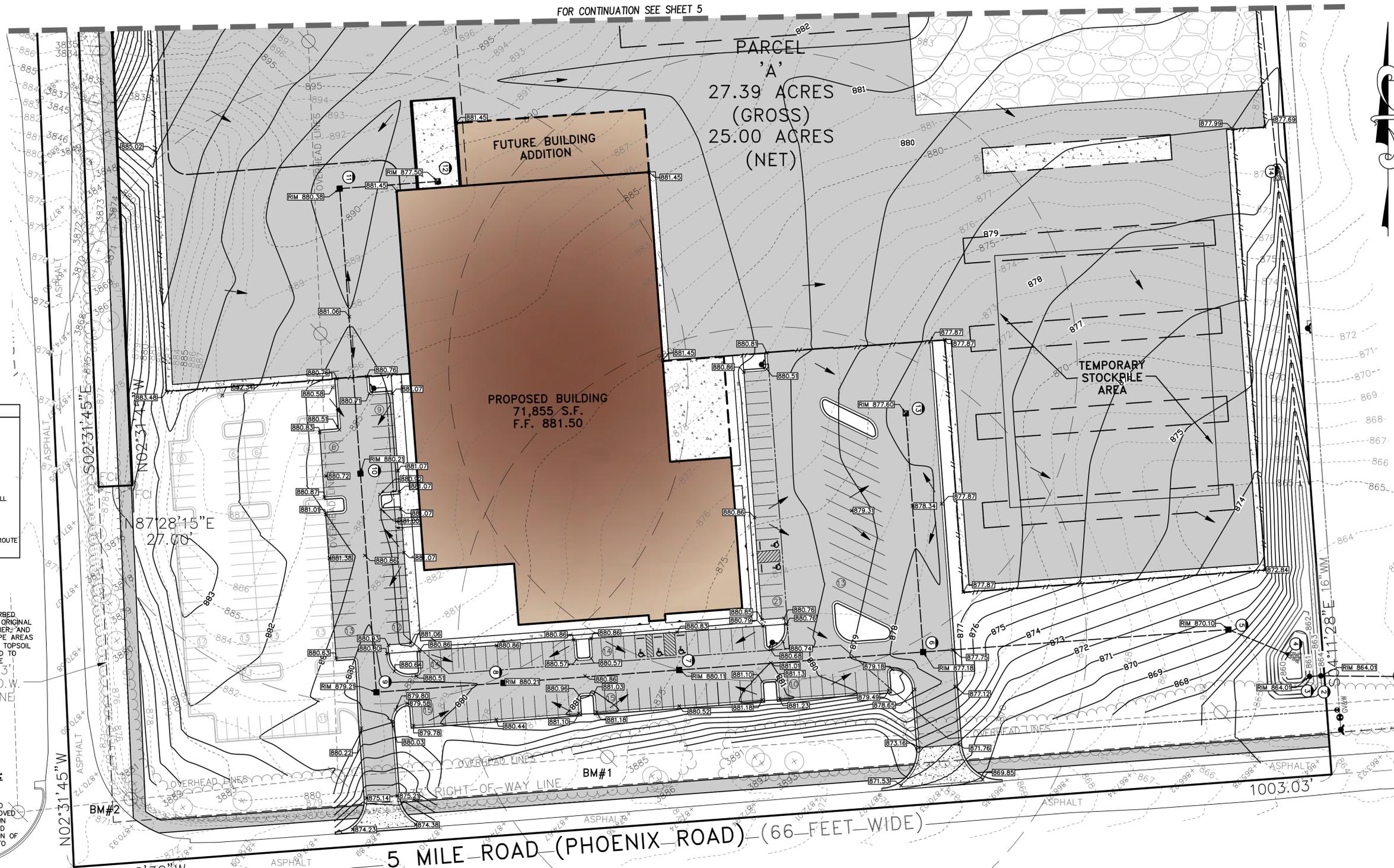
- ASPHALT
- CONCRETE
- PROPOSED BUILDING
- EXISTING BUILDING

ALL PROPOSED PAVEMENT CROSS-SECTIONS ARE PER NORTHVILLE TOWNSHIP SPECIFICATIONS, TYP

**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.

FOR CONTINUATION SEE SHEET 5



**GRADING NOTES**

1. SUBGRADE PREPARATION FOR PAVEMENT AND UTILITIES SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER.
2. ACCEPTABLE MATERIAL FROM UNDERCUTTING MAY BE USED AS ENGINEERED FILL AS APPROVED BY SOILS ENGINEER.
3. CONTRACTOR SHALL TEMPORARILY STOCKPILE TOP SOIL TO BE USED FOR FINAL GRADING.
4. REMOVE ANY EXISTING TOPSOIL, ORGANIC SOILS, VEGETATION, TREES AND OTHER DELETERIOUS MATERIALS TO EXPOSE THE SUBGRADE SOIL. TREES SHOULD BE COMPLETELY REMOVED.
5. THE TOP 12 INCHES OF THE EXPOSED SUBGRADE AS WELL AS INDIVIDUAL FILL LAYERS SHOULD BE COMPACTED TO ACHIEVE A 95% COMPACTION LEVEL. (MODIFIED PROCTOR - ASTM D1557).
6. THE FINAL SUBGRADE SHOULD BE THOROUGHLY PROOFROOFED USING A FULLY LOADED TANDEM AXLE TRUCK UNDER THE OBSERVATION OF A GEOTECHNICAL/ PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CAN NOT BE MECHANICALLY STABILIZED SHOULD BE REMOVED AND REPLACED WITH ENGINEERED FILL.
7. THE AGGREGATE BASE SHOULD BE COMPACTED TO ACHIEVE A 95 PERCENT COMPACTION LEVEL (MODIFIED PROCTOR - ASTM D1557). THE BASE AND SUBGRADE COMPACTION SHOULD EXTEND A MINIMUM OF 1 FOOT BEYOND THE PAVED EDGE.
8. ALL BITUMINOUS MATERIAL SHOULD BE COMPACTED TO A DENSITY OF 97% OF THE MAXIMUM DENSITY AS DETERMINED BY THE MARSHALL METHOD.
9. SAWOUT AND REMOVE EXISTING CURBS AND PAVEMENT AS NECESSARY FOR CONSTRUCTION. FIELD VERIFY EXISTING PAVEMENT AND CURB ELEVATIONS WHERE PROPOSED PAVEMENT AND CURB MEETS EXISTING PAVEMENT AND CURB PRIOR TO CONSTRUCTION. PAVING CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE 1% MINIMUM PAVEMENT SLOPE IS ACHIEVED AND SHALL CONTACT DESIGN ENGINEER PRIOR TO CONSTRUCTION IF A CONFLICT IS APPARENT.
10. 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.

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

---

**811**  
Know what's below  
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---

**GRADING PLAN - SOUTH**

NORTHVILLE LUMBER - PARCEL 77-071-99-0002-701  
SECTION: 18 TOWNSHIP: 1 S RANGE: 8 E.  
NORTHVILLE TOWNSHIP  
WAYNE COUNTY  
MICHIGAN

---

CLIENT: NORTHVILLE LUMBER

REVISED

DATE: 10-28-2022  
DRAWN BY: RMS  
CHECKED BY: LW

SCALE: HOR 1"=40 FT.  
VER 1"=4 FT.

4

20-372

**BENCHMARKS:**

- SITE BM #1**  
BENCH TIE ON SOUTH SIDE OF UTILITY POLE, 425'± EAST OF CENTERLINE OF NAPIER ROAD  
ELEVATION: 876.69 N.A.V.D.88 DATUM
- SITE BM #2**  
GEAR PIN IN SOUTHWEST SIDE OF POWER POLE, NORTHEAST CORNER OF NAPIER ROAD AND 5 MILE ROAD  
ELEVATION: 874.12 N.A.V.D.88 DATUM
- SITE BM #3**  
BENCH TIE ON NORTHEAST FACE OF UTILITY POLE, 800'± NORTH OF CENTERLINE 5 MILE ROAD WEST SIDE OF NAPIER ROAD  
ELEVATION: 894.08 N.A.V.D.88 DATUM
- SITE BM #4**  
NAIL IN NORTH SIDE OF TREE (#3739), NORTHWEST CORNER OF PROPERTY  
ELEVATION: 899.23 N.A.V.D.88 DATUM

**LEGEND**

- EX. SANITARY SEWER
- EX. STORM SEWER
- EX. WATER MAIN
- EX. OVERHEAD UTILITY LINES
- EX. MANHOLE
- EX. CATCH BASIN
- EX. HYDRANT
- EX. GATE VALVE
- EX. UTILITY POLE
- EX. GUY WIRE
- FD. IRON BAR
- SET IRON BAR
- EX. SIGN
- EX. UNKNOWN METER
- EX. DECIDUOUS TREE

**GRADING AND DRAINAGE LEGEND:**

- 7700.00 PROPOSED SPOT GRADE ELEVATION
- DBL = DROP BRICK LEDGE
- TP = TOP OF PAVEMENT
- TW = TOP OF WALK
- TC = TOP OF CURB
- G = GUTTER
- T/WL = FINISH GRADE AT TOP OF RETAINING WALL
- B/WL = FINISH GRADE AT BOTTOM OF RETAINING WALL
- FG = FINISH GRADE
- FF = FINISH FLOOR
- = OVERLAND FLOW DIRECTION
- ↔ = EMERGENCY 100YR OVERLAND OVERFLOW ROUTE
- ~ = PROPOSED SWALE

**LIMITS OF DISTURBANCE**

TOTAL AREA OF DISTURBANCE = 2.54 AC±

**RESTORATION NOTE:**

THE CONTRACTOR SHALL RESTORE AREAS DISTURBED FROM HIS CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER. LANDSCAPE AREAS REQUIRING RESTORATION SHALL INCLUDE MIN. 3" TOPSOIL AND SOD. PAVEMENT AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, WITH THE APPLICABLE CROSS-SECTION TO MATCH EXISTING.

**GENERAL NOTES:**

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF NORTHVILLE TOWNSHIP.
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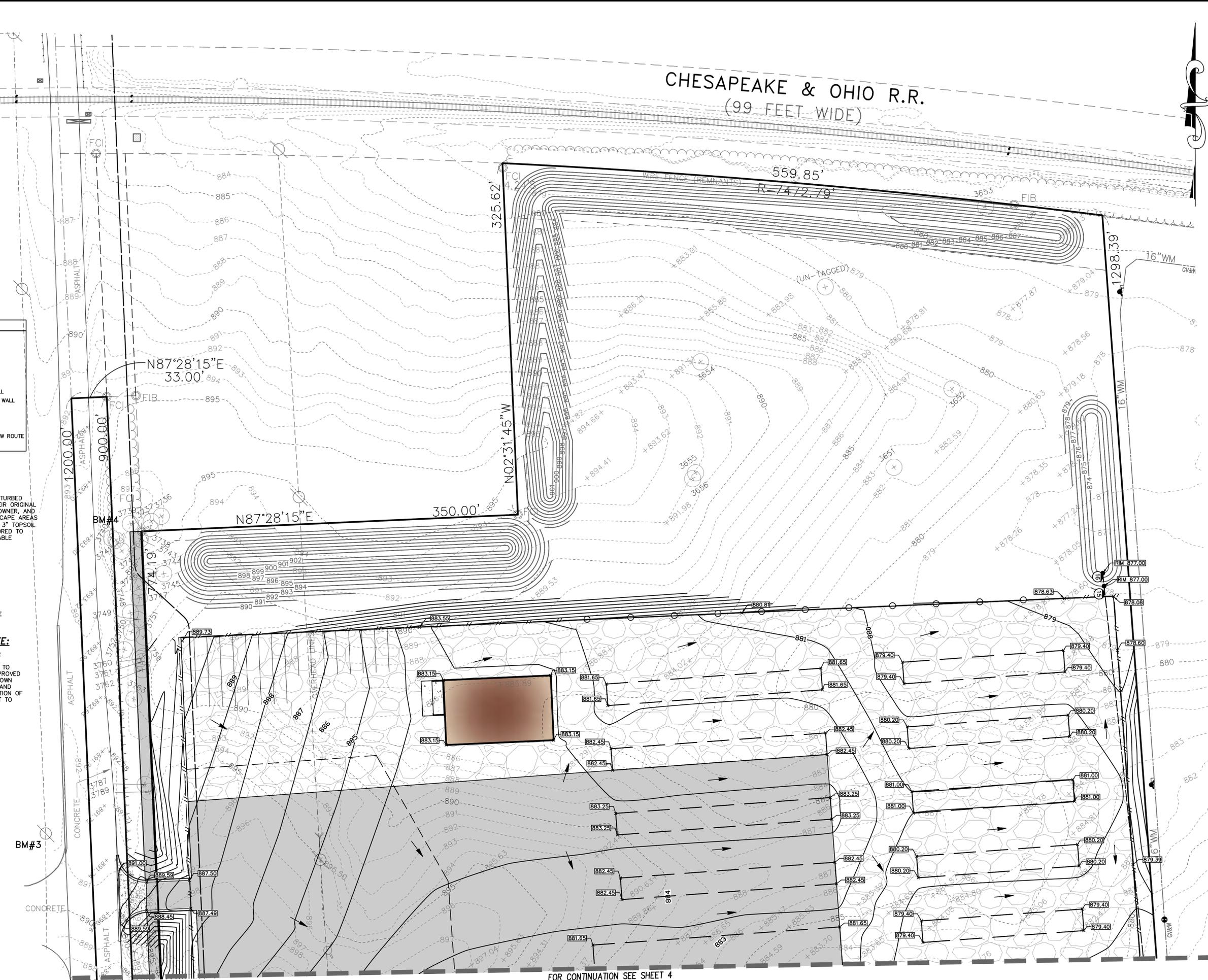
**EARTHWORK BALANCING NOTE:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

**HATCH LEGEND**

- ASPHALT
- CONCRETE
- PROPOSED BUILDING
- EXISTING BUILDING

ALL PROPOSED PAVEMENT CROSS-SECTIONS ARE PER NORTHVILLE TOWNSHIP SPECIFICATIONS, TYP



FOR CONTINUATION SEE SHEET 4

RESIDENTIAL  
Site Condominium  
Survey  
Plot Plans

COMMERCIAL  
Site Planning  
Site Preparation  
Industrial & Multi-Unit  
Land Surveying

SURVEYING  
Boundary Surveys  
Topographic Surveys  
Parcel Surveys  
Construction Staking

**GREENTECH**  
ENGINEERING, INC.

CIVIL ENGINEERS & LAND SURVEYORS

51147 W. Pentacle Trail, Wixom, MI 48393  
Phone: (248) 668-0700 Fax: (248) 668-0701

**811**  
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CLIENT: NORTHVILLE LUMBER

**GRADING PLAN - NORTH**

NORTHVILLE LUMBER - PARCEL 77-071-99-0002-701  
SECTION: 18 TOWNSHIP: 1 S RANGE: 8 E.  
NORTHVILLE TOWNSHIP  
WAYNE COUNTY  
MICHIGAN

REVISED

DATE: 10-28-2022  
DRAWN BY: RMS  
CHECKED BY: LW

SCALE: HOR 1" = 40 FT.  
VER 1" = 40 FT.

5  
20-372

Seal:



Title:  
**Landscape Plan**

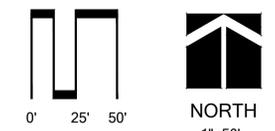
Project:  
**Northville Lumber  
 Northville Township, Michigan**

Prepared for:  
 Greentech Engineering  
 51147 W. Pontiac Trail  
 Wixom, Michigan 48393

Revision: Issued:  
 Review October 17, 2022  
 Submission October 25, 2022

Job Number:  
 22-072

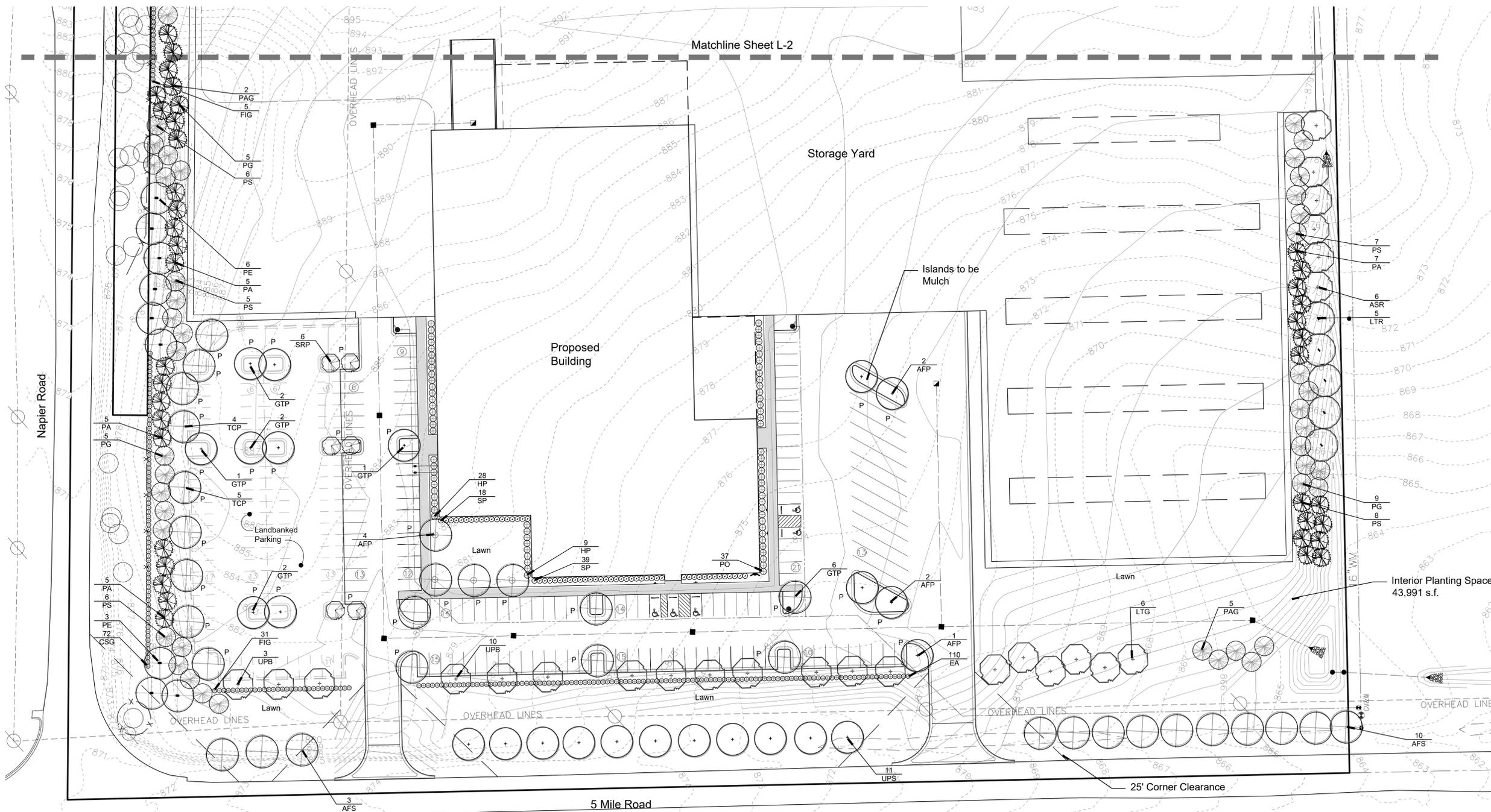
Drawn By: Checked By:  
 jca jca



Sheet No.



L-1



**Landscape Summary**

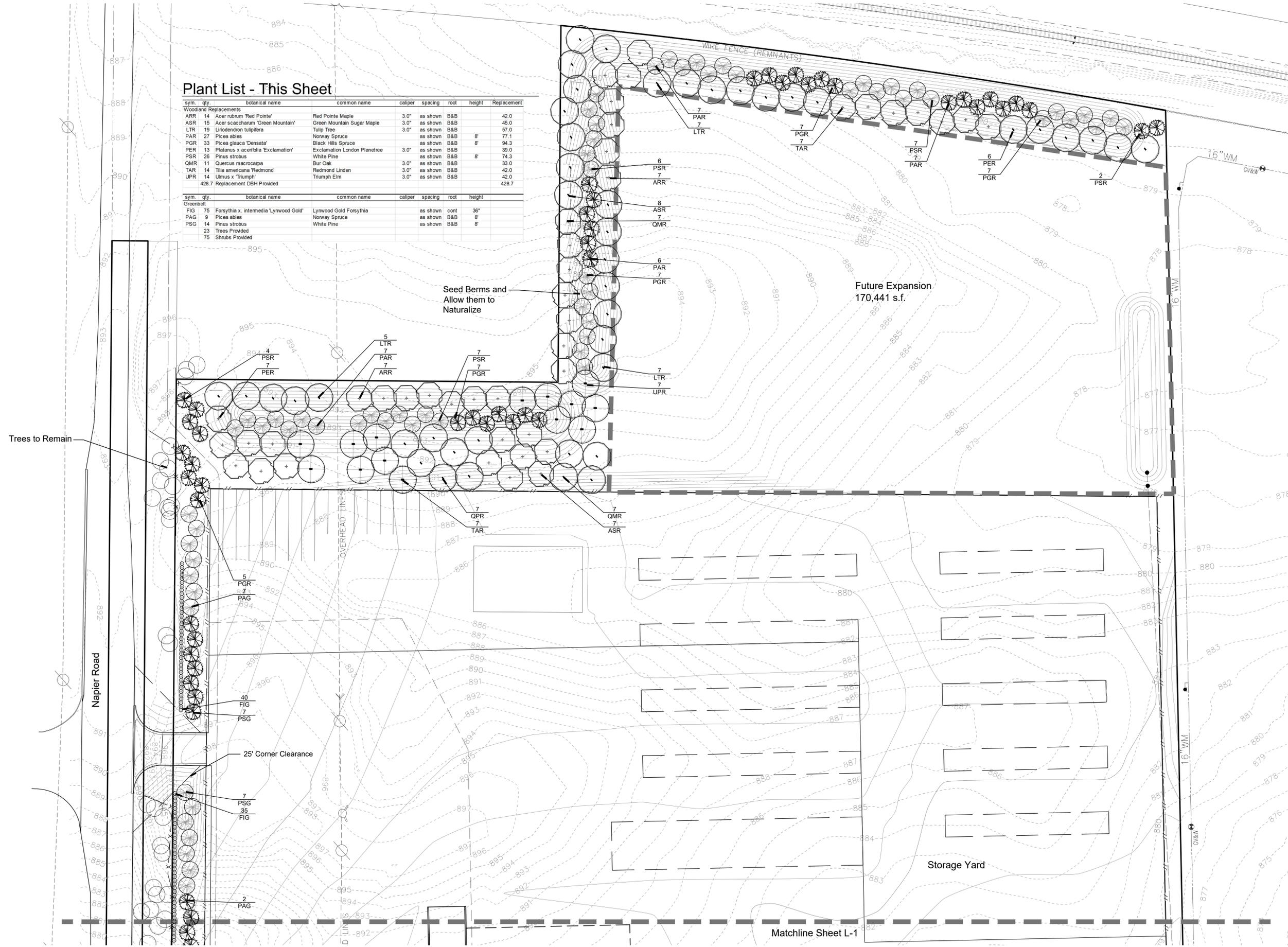
<b>Street Trees</b>		<b>Parking Lot Landscaping</b>	
Napier		Paved Area	103,776 s.f.
Street Frontage	1,012 l.f.	*P* Trees Required	34.6 Trees (103,776 / 3,000)
Trees Required	25.3 Trees (1,012' / 40')	Trees Provided	35 Trees (6 Ornamental, 32 Deciduous)
Trees Provided	39 Trees (39 Existing)		
<b>5 Mile</b>		<b>Building Fronts and Interior Grounds</b>	
Street Frontage	941 l.f.	Site Area	1,088,069 s.f.
Trees Required	23.5 Trees (941' / 40')	Less Parking	103,776 s.f.
Trees Provided	24 Trees	Less Storage Yard	536,676 s.f.
		Less Future Expansion	170,441 s.f.
		Less Greenbelts	58,590 s.f.
<b>Greenbelt</b>		Net Site Area	218,586 s.f.
Napier		Interior Planting Area Required	32,788 s.f. (218,586 x 15%)
Greenbelt Length	1,012'	Interior Planting Area Provided	43,991 s.f.
Trees Required	25.3 Trees (1,012' / 40')	Trees Required	81.9 Trees (32,788 / 400)
Trees Provided	25 Trees	Trees Provided	82 Trees
Sheet L-1	2 Trees	Shrubs Required	131.2 Shrubs (32,788 / 250)
Sheet L-2	23 Trees	Shrubs Provided	131 Shrubs
Shrubs Required	151.8 Shrubs (1,012' / 40') x 6	<b>Woodland Replacement</b>	
Shrubs Provided	152 Shrubs	Replacement Required	979"
Sheet L-1	77 Shrubs	Replacement Trees Caliper Provided	461.7"
Sheet L-2	75 Shrubs	Sheet L-1	33"
		Sheet L-2	428.7"
<b>5 Mile</b>		Remaining Caliper to be Provided	517.3"
Greenbelt Length	941'		
Trees Required	23.5 Trees (941' / 40')		
Trees Provided	24 Trees		
Shrubs Required	141 Shrubs (941' / 40') x 6		
Shrubs Provided	141 Shrubs		

**Plant List - This Sheet**

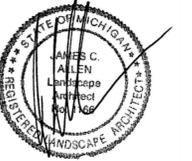
sym.	qty.	botanical name	common name	caliper	spacing	root	height
<b>Street Trees</b>							
AFS	13	Acer x freemanii 'Autumn Blaze'	Autumn Blaze Maple	3.0"	as shown	B&B	
UPS	11	Ulmus x 'Triumph'	Triumph Elm	3.0"	as shown	B&B	
	24	Trees Provided					
<b>Greenbelt</b>							
CSG	72	Comus sericea 'Arctic Fire'	Arctic Fire Dogwood		as shown	cont	36"
ESG	110	Euonymus alata 'Compacta'	Compact Burning Bush		as shown	cont	36"
FIG	36	Forsythia x. intermedia 'Lynwood Gold'	Lynwood Gold Forsythia		as shown	cont	36"
LTG	6	Liriodendron tulipifera	Tulip Tree	3.0"	as shown	B&B	
PAG	7	Picea abies	Norway Spruce		as shown	B&B	8'
UPB	13	Ulmus x 'Triumph'	Triumph Elm	3.0"	as shown	B&B	
	26	Trees Provided					
	218	Shrubs Provided					
<b>Parking Lot</b>							
AFP	9	Acer x freemanii 'Autumn Blaze'	Autumn Blaze Maple	3.0"	as shown	B&B	
SRP	6	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Lilac	2.0"	as shown	B&B	
GTP	14	Gleditsia triacanthos var. inermis	Honeylocust	3.0"	as shown	B&B	
TCP	9	Tilia cordata 'Greenspire'	Greenspire Linden	3.0"	as shown	B&B	
	38	Trees Provided					
<b>Building Fronts and Interior Grounds</b>							
BX		Buxus 'Green Mountain'	Green Mountain Boxwood		as shown	cont	30"
CS		Comus sericea 'Arctic Fire'	Arctic Fire Dogwood		as shown	cont	36"
EA		Euonymus alata 'Compacta'	Compact Burning Bush		as shown	cont	36"
HP	37	Hydrangea paniculata 'Little Quickfire'	Little Quickfire Panicle Hydrangea		as shown	cont	36"
PA	22	Picea abies	Norway Spruce		as shown	B&B	8'
PE	9	Platanus x acerifolia 'Exclamation'	Exclamation London Planetree	3.0"	as shown	B&B	
PG	15	Picea glauca 'Oersted'	Black Hills Spruce		as shown	B&B	8'
PO	37	Physocarpus opulifolius 'Summer Wine'	Summer Wine Ninebark		as shown	cont	36"
PS	32	Pinus strobus	White Pine		as shown	B&B	8'
SP	57	Spiraea x. bumalda 'Anthony Waterer'	Anthony Waterer Spiraea		as shown	cont	30"
	82	Trees Provided					
	131	Shrubs Provided					
<b>Woodland Replacements</b>							
ASR	6	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	3.0"	as shown	B&B	18.0
LTR	5	Liriodendron tulipifera	Tulip Tree	3.0"	as shown	B&B	15.0
	33	Replacement DBH Provided					33.0

**Plant List - This Sheet**

sym.	qty.	botanical name	common name	caliper	spacing	root	height	Replacement
<b>Woodland Replacements</b>								
ARR	14	Acer rubrum 'Red Pointe'	Red Pointe Maple	3.0"	as shown	B&B	42.0	
ASR	15	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	3.0"	as shown	B&B	45.0	
LTR	19	Liriodendron tulipifera	Tulip Tree	3.0"	as shown	B&B	57.0	
PAR	27	Picea abies	Norway Spruce	as shown	as shown	B&B	8'	
PGR	33	Picea glauca 'Densata'	Black Hills Spruce	as shown	as shown	B&B	8'	
PER	13	Platanus x acerifolia 'Exclamation'	Exclamation London Planetree	3.0"	as shown	B&B	39.0	
PSR	26	Pinus strobus	White Pine	as shown	as shown	B&B	74.3	
QMR	11	Quercus macrocarpa	Bur Oak	3.0"	as shown	B&B	33.0	
TAR	14	Tilia americana 'Redmond'	Redmond Linden	3.0"	as shown	B&B	42.0	
UPR	14	Ulmus x 'Triumph'	Triumph Elm	3.0"	as shown	B&B	42.0	
428.7 Replacement DBH Provided								
<b>Greenbelt</b>								
FIG	75	Forsythia x. intermedia 'Lynwood Gold'	Lynwood Gold Forsythia	as shown	cont		36"	
PAG	9	Picea abies	Norway Spruce	as shown	as shown	B&B	8'	
PSG	14	Pinus strobus	White Pine	as shown	as shown	B&B	8'	
23 Trees Provided								
75 Shrubs Provided								



Seal:



Title:  
**Landscape Plan**

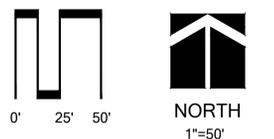
Project:  
**Northville Lumber  
 Northville Township, Michigan**

Prepared for:  
 Greentech Engineering  
 51147 W. Pontiac Trail  
 Wixom, Michigan 48393

Revision: Issued:  
 Review October 17, 2022  
 Submission October 25, 2022

Job Number:  
 22-072

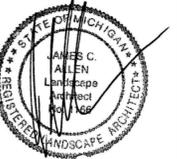
Drawn By: Checked By:  
 jca jca



Sheet No.



Seal:



Title:

Woodland Plan

Project:

Northville Lumber  
Northville Township, Michigan

Prepared for:

Greentech Engineering  
51147 W. Pontiac Trail  
Wixom, Michigan 48393

Revision:

Review  
Submission

Issued:

October 17, 2022  
October 25, 2022

Job Number:

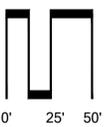
22-072

Drawn By:

jca

Checked By:

jca



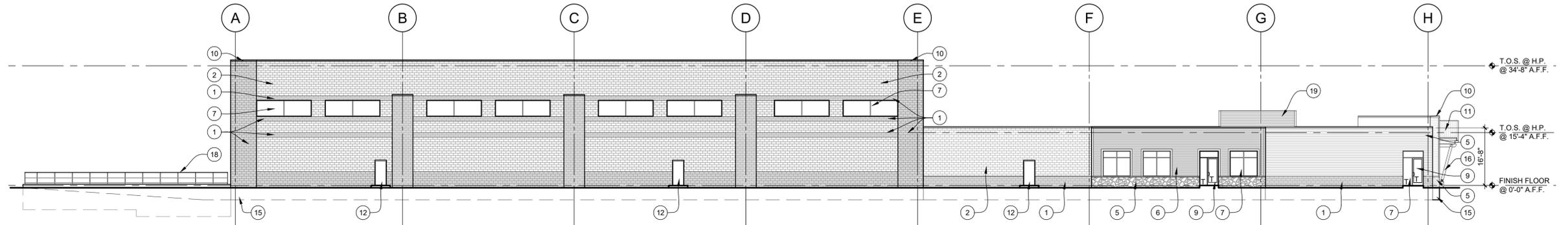
NORTH  
1"=50'

Sheet No.



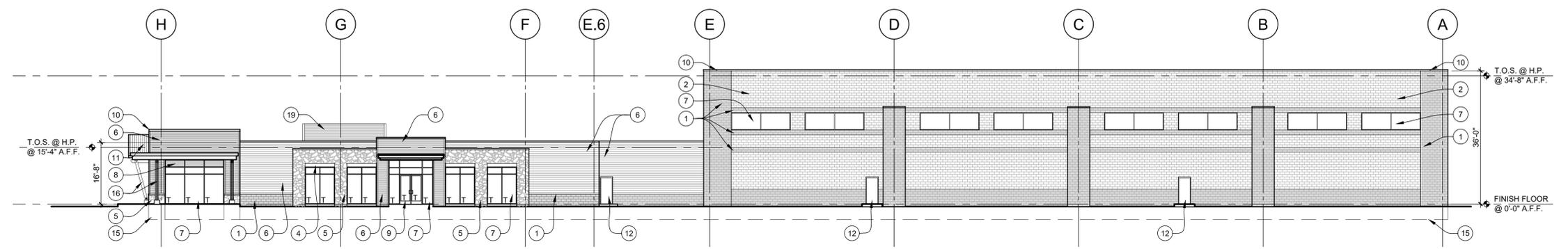
Tree List

REGULATED REMOVAL	LANDMARK REMOVAL	TAG NO.	DIAMETER	COMMON NAME	BOTANICAL NAME	CONDITION	STATUS	LANDMARK	REGULATED REMOVAL	LANDMARK REMOVAL	TAG NO.	DIAMETER	COMMON NAME	BOTANICAL NAME	CONDITION	STATUS	LANDMARK	REGULATED REMOVAL	LANDMARK REMOVAL	TAG NO.	DIAMETER	COMMON NAME	BOTANICAL NAME	CONDITION	STATUS	LANDMARK	REGULATED REMOVAL	LANDMARK REMOVAL	
		3601	11	Black Walnut	Juglans nigra	Good	Remove		11		3711	13	Black Walnut	Juglans nigra	Good	Remove				3821	40	Black Willow	Salix nigra	Fair	Remove	Yes	46		
		3602	15	Black Walnut	Juglans nigra	Good	Remove		15		3712	19	Black Walnut	Juglans nigra	Good	Remove				3822	30	Black Walnut	Juglans nigra	Good	Remove	Yes	8		
		3603	8	Black Walnut	Juglans nigra	Good	Remove		8		3713	10	Black Walnut	Juglans nigra	Good	Remove				3823	8	Black Walnut	Juglans nigra	Good	Remove				
		3604	11	Black Walnut	Juglans nigra	Good	Remove		11		3714	7	Black Walnut	Juglans nigra	Good	Exempt				3824	10	Black Walnut	Juglans nigra	Good	Remove				
		3605	11	Black Walnut	Juglans nigra	Good	Remove		11		3715	7	Black Walnut	Juglans nigra	Good	Exempt				3825	7	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3606	9	Black Walnut	Juglans nigra	Good	Remove		9		3716	8	Black Walnut	Juglans nigra	Good	Remove	8			3826	7	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3607	9	Black Walnut	Juglans nigra	Good	Remove		9		3717	12	Box Elder	Acer negundo	Good	Exempt				3827	10	Box Elder	Acer negundo	Good	Exempt				
		3608	9, 12	Common Apple	Malus spp	Fair	Remove		21		3718	17	Black Walnut	Juglans nigra	Good	Remove	17			3828	13	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3609	12	Green Ash	Fraxinus pennsylvanica	Exit Wounds	Exempt				3719	8	Black Walnut	Juglans nigra	Good	Remove	8			3829	9	Black Walnut	Juglans nigra	Good	Remove				
		3610	10	Black Walnut	Juglans nigra	Good	Remove		10		3720	8	Black Walnut	Juglans nigra	Good	Remove	8			3830	17	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3611	11	Black Walnut	Juglans nigra	Good	Remove		11		3721	8	Black Walnut	Juglans nigra	Good	Remove	8			3831	13	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3612	9	Black Walnut	Juglans nigra	Good	Remove		9		3722	21	Black Walnut	Juglans nigra	Good	Remove	Yes	21		3832	8	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3613	9	Black Walnut	Juglans nigra	Good	Remove		9		3723	8	Black Walnut	Juglans nigra	Good	Remove	8			3833	7	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3614	8	Buckthorn - not a tree	Juglans nigra	Good	Exempt				3724	12	Black Walnut	Juglans nigra	Good	Remove	12			3834	8	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3615	12	Black Walnut	Juglans nigra	Good	Remove		12		3725	10	Black Walnut	Juglans nigra	Good	Remove	10			3835	8	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3616	13	Black Walnut	Juglans nigra	Good	Remove		13		3726	10	Black Walnut	Juglans nigra	Good	Remove	10			3836	10	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3617	11	Black Walnut	Juglans nigra	Good	Remove		11		3727	15	Black Walnut	Juglans nigra	Good	Remove	15			3837	1	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3618	12	Black Walnut	Juglans nigra	Good	Remove		12		3728	7	Black Walnut	Juglans nigra	Good	Exempt				3838	10	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3619	18	Black Walnut	Juglans nigra	Good	Remove		18		3729	14	Box Elder	Acer negundo	Good	Exempt				3839	9	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3620	12	Black Walnut	Juglans nigra	Good	Remove		12		3730	12	Black Cherry	Prunus serotina	Good	Remove	12			3840	9	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3621	14	Black Walnut	Juglans nigra	Good	Remove		14		3731	10	Box Elder	Acer negundo	Good	Exempt				3841	10	Black Walnut	Juglans nigra	Good	Remove				
		3622	8, 8	Black Walnut	Juglans nigra	Good	Remove		16		3732	13	Box Elder	Acer negundo	Good	Exempt		Yes	23	3842	15	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3623	8	Black Walnut	Juglans nigra	Good	Remove		8		3733	23	Black Walnut	Juglans nigra	Good	Remove	15			3843	12	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3624	8	Common Apple	Malus spp	Fair	Remove		8		3734	15	Sugar Maple	Acer saccharum	Good	Remove	Yes	15		3844	8	Mulberry	Morus alba	Good	Exempt				
		3625	5, 8	Common Apple	Malus spp	Fair	Remove		8		3735	9	Sugar Maple	Acer saccharum	Good	Remove	9			3845	10	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3626	12	Black Walnut	Juglans nigra	Good	Exempt				3736	11	Black Walnut	Juglans nigra	Good	Save				3846	8, 10	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3627	24	Box Elder	Acer negundo	Good	Exempt				3737	8	Black Walnut	Juglans nigra	Good	Save				3847	12	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3628	18	Sugar Maple	Acer saccharum	Good	Remove	Yes	18		3738	17	Bitternut Hickory	Carya cordiformis	Good	Save				3848	0, 0	Black Locust	Robinia pseudoacacia	Good	Save				
		3629	5, 7	Common Apple	Malus spp	Fair	Exempt		8		3739	12	Bitternut Hickory	Carya cordiformis	Good	Remove	12			3849	0	Black Locust	Robinia pseudoacacia	Good	Save				
		3630	5, 7, 8	Common Apple	Malus spp	Remove	Remove		8		3740	8	Bitternut Hickory	Carya cordiformis	Good	Save	7			3850	0	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3631	9	Black Walnut	Juglans nigra	Good	Remove		9		3741	7, 9	Black Locust	Robinia pseudoacacia	Good	Exempt				3851	0, 0, 0	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3632	9	Box Elder	Acer negundo	Good	Exempt				3742	9	Black Locust	Robinia pseudoacacia	Good	Exempt				3852	0	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3633	8	Box Elder	Acer negundo	Good	Exempt				3743	13	American Elm	Ulmus americana	Good	Save	9			3853	8	Black Walnut	Juglans nigra	Good	Remove				
		3634	8	Box Elder	Acer negundo	Good	Exempt				3744	8	Box Elder	Acer negundo	Good	Exempt				3854	12	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3635	5, 6, 7	Common Apple	Malus spp	Fair	Exempt		17		3745	11	Sugar Maple	Acer saccharum	Good	Remove	11			3855	11	Black Walnut	Juglans nigra	Good	Remove				
		3636	8, 11	Common Apple	Malus spp	Fair	Remove		17		3746	8	Box Elder	Acer negundo	Good	Exempt	8			3856	11	Black Walnut	Juglans nigra	Good	Remove				
		3637	10	Box Elder	Acer negundo	Good	Exempt				3747	14	Sugar Maple	Acer saccharum	Good	Save				3857	6	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3638	8	Box Elder	Acer negundo	Good	Exempt				3748	9, 13	Black Locust	Robinia pseudoacacia	Good	Save				3858	11	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3639	8	Box Elder	Acer negundo	Good	Exempt				3749	8	Box Elder	Acer negundo	Good	Save	2			3859	9	Black Walnut	Juglans nigra	Good	Remove				
		3640	8	Box Elder	Acer negundo	Good	Exempt				3750	9	American Elm	Ulmus americana	Good	Save				3860	12	Black Locust	Robinia pseudoacacia	Good	Exempt				
		3641	9	Box Elder	Acer negundo	Good	Exempt				3751	10	Box Elder	Acer negundo	Good	Save				3861	9	Black Walnut	Juglans nigra	Good	Remove				
		3642	15	Black Walnut	Juglans nigra	Good	Exempt				3752	13	American Elm	Ulmus americana	Good	Save				3862	8	Black Walnut	Juglans nigra	Good	Remove				
		3643	9	Black Walnut	Juglans nigra	Good	Remove		9		3753	17	Box Elder	Acer negundo	Good	Exempt				3863	16	Black Walnut	Juglans nigra	Good	Remove				
		3644	18	Black Walnut	Juglans nigra	Good	Remove		18		3754	7	Box Elder	Acer negundo	Good	Exempt				3864	7	Black Walnut	Juglans nigra	Good	Remove				
		3645	8	Black Walnut	Juglans nigra	Good	Remove		8		3755	8	Box Elder	Acer negundo	Good	Exempt				3865	12	Black Walnut	Juglans nigra	Good	Remove				
		3646	8	Black Walnut	Juglans nigra	Good	Remove		8		3756	Dead	Box Elder	Acer negundo	Good	Exempt				3866	9	Black Walnut	Juglans nigra	Good	Remove				
		3647	8	Black Walnut	Juglans nigra	Good	Remove		8		3757	7	Box Elder	Acer negundo	Good	Exempt				3867	7	Mulberry	Morus alba	Good	Save				
		3648	8	Black Walnut	Juglans nigra	Good	Remove		8		3758	7	Box Elder	Acer negundo	Good	Exempt				3868	7	American Elm	Ulmus americana	Good	Save				
		3649	14	Black Walnut	Juglans nigra	Good	Remove		14		3759	7	Black Walnut	Juglans nigra	Good	Save				3869	31	Eastern Cottonwood	Populus deltoides	Good	Save	Yes			
		3650	7	Black Walnut	Juglans nigra	Good	Exempt				3760	9	Black Walnut	Juglans nigra	Good	Save				3870	11	American Elm	Ulmus americana	Good	Save				
		3651	10	Buckthorn - not a tree	Juglans nigra	Good	Exempt				3761	9	Black Walnut	Juglans nigra	Good	Save				3871	40	Eastern Cottonwood	Populus deltoides	Good	Save	Yes			
		3652	13, 15	Common Apple	Malus spp	Fair	Remove		28		3762	9	Black Walnut	Juglans nigra	Good	Save				3872	8	American Elm	Ulmus americana	Good	Save	Yes			
		3653	8	Black Walnut	Juglans nigra	Good	Remove		8		3763	11	Black Walnut	Juglans nigra	Good	Save				3873	37	Eastern Cottonwood	Populus deltoides	Good	Save	Yes			
		3654	7, 8, 9	Common Apple	Malus spp	Fair	Remove		25		3764	10, 13	Black Walnut	Juglans nigra	Good	Save				3874	7	Common Apple	Malus spp	Fair	Save				
		3655	8, 9	Common Apple	Malus spp	Fair	Remove		18		3765	10, 13	Bitternut Hickory	Carya cordiformis	Good	Remove	12			3875	9	Green Ash	Fraxinus pennsylvanica	Exit Wounds	Exempt				
		3656	6, 8, 10	Common Apple	Malus spp	Fair	Remove		18		3766	8	Black Walnut	Juglans nigra	Good	Remove	8			3876	15	Black Cherry	Prunus serotina	Good	Save				
		3657	16	Box Elder	Acer negundo	Good	Exempt				3767	7	Box Elder	Acer negundo	Good	Exempt				3877	11	Mulberry	Morus alba	Good	Save				
		3658	11	Black Walnut	Juglans nigra	Good	Remove		11		3768	8	Box Elder	Acer negundo	Good	Exempt				3878	1, 14	1 1/2" cherry	Prunus pennsylvanica	Good	Save				
		3659	15	Black Walnut	Juglans nigra	Good	Remove		15		3769	8	Box Elder	Acer negundo	Good	Exempt				3879	14	1 1/2" cherry	Prunus pennsylvanica	Good	Save				
		3660	13	Black Walnut	Juglans nigra	Good	Remove		13		3770	19	Black Walnut	Juglans nigra	Good	Remove	19			3880	10	Black Walnut	Juglans nigra	Good	Save				
		3661	12	Black Walnut	Juglans nigra	Good	Remove		12		3771	10	Black Walnut	Juglans nigra	Good	Remove	10			3881	7	Buckthorn - not a tree	Juglans nigra	Good	Exempt				
		3662	9	Black Walnut	Juglans nigra	Good	Remove		9		3772	8	Box Elder	Acer negundo	Good	Exempt				3882	8, 8	American Elm	Ulmus americana	Good	Exempt				
		3663	7, 7	American Elm	Ulmus americana	Good	Exempt				3773	8	Box Elder	Acer negundo	Good	Exempt													



**PRELIMINARY WEST ELEVATION**  
SCALE: 1/16" = 1'-0"

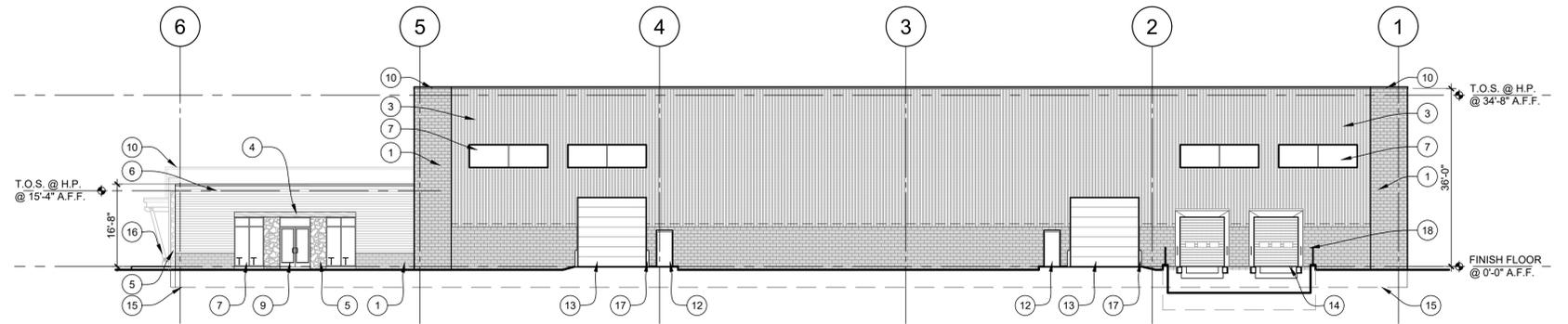
4



**PRELIMINARY EAST ELEVATION**  
SCALE: 1/16" = 1'-0"

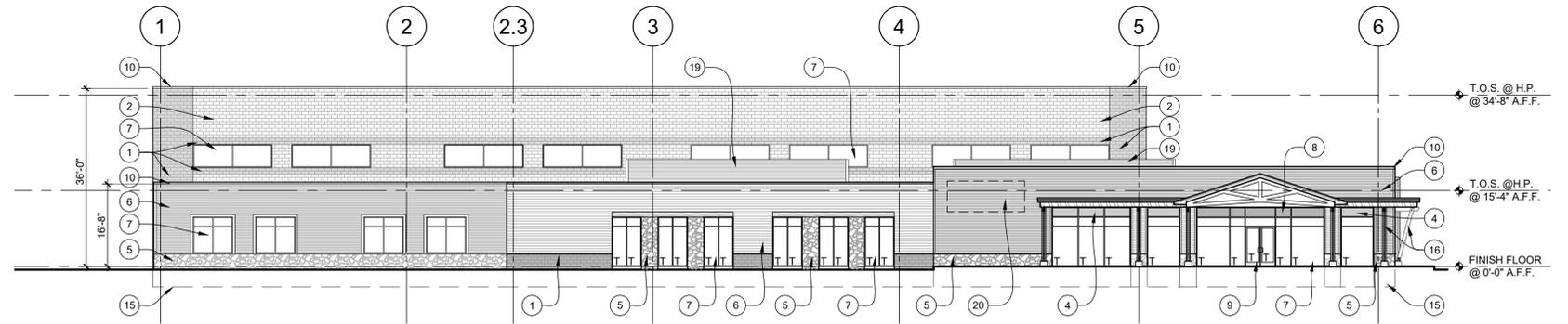
3

EXTERIOR MATERIAL SCHEDULE			
1	12" SPLIT-FACE CMU MANUFACTURER: TBD COLOR: TBD	11	STANDING SEAM METAL ROOF
2	12" SMOOTH-FACE CMU MANUFACTURER: TBD COLOR: TBD	12	HOLLOW METAL DOOR AND FRAME
3	INSULATED METAL PANEL	13	12'x14' SECTIONAL INSULATED OVERHEAD GRADE DOOR w/ MOTOR OPERATED OPENER
4	INSULATED CURTAIN WALL INFILL PANEL	14	9'x10' SECTIONAL INSULATED OVERHEAD TRUCK DOCK W/ DOCK LEVELER & SHELTER SEAL
5	STONE VENEER	15	CONC. TRENCH FOOTING BELOW
6	HORIZONTAL SIDING	16	DECORATIVE WOOD COLUMN, STAINED FINISH
7	1" TINTED LOW 'E' INSUL. GLAZING IN CLEAR ANOD. ALUM. THERMAL BREAK FRAMES	17	6" DIA. CONC. FILLED STEEL GUARD POST
8	1" TINTED LOW 'E' INSUL. TINTED SPANDREL GLAZING IN CLEAR ANOD. ALUM. THERMAL BREAK FRAMES	18	1 1/2" DIA. PAINTED STEEL PIPE GUARDRAIL
9	ANOD. ALUM. ENTRY DOOR W/ TEMPERED GLASS	19	FLUSH METAL PANEL SIDING (ROOF SCREENING)
10	PREFINISHED METAL COPING	20	PROPOSED BUILDING SIGN LOCATION (BY OWNER)



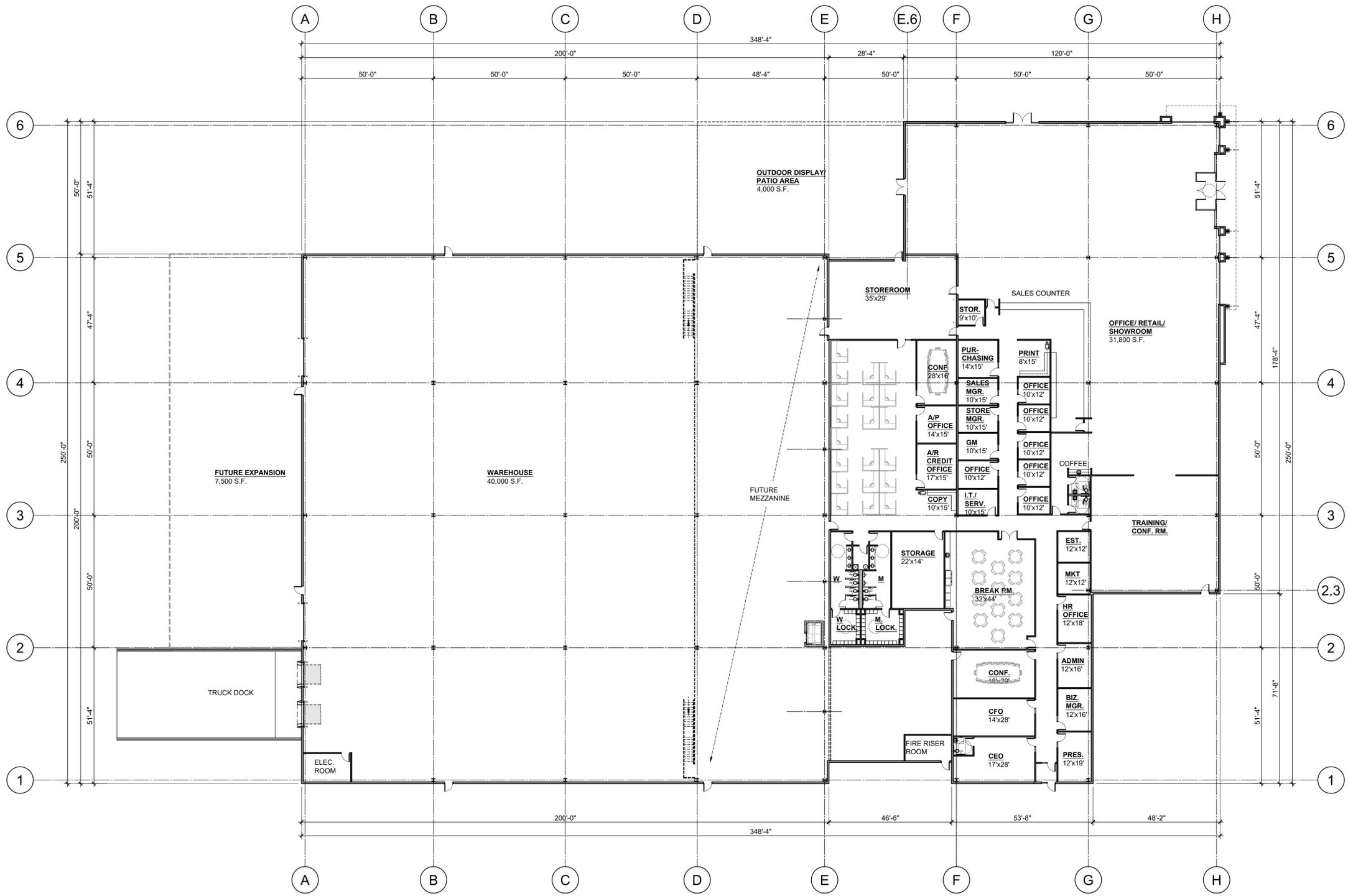
**PRELIMINARY NORTH ELEVATION**  
SCALE: 1/16" = 1'-0"

2



**PRELIMINARY SOUTH ELEVATION**  
SCALE: 1/16" = 1'-0"

1



WAREHOUSE: 40,000 S.F.  
 OFFICE / SHOWROOM: 31,800 S.F.  
 TOTAL BUILDING: 71,800 S.F.

**PRELIMINARY FLOOR PLAN**  
 SCALE: 1:20



1

ISSUED FOR:	SITE PLAN APPROVAL
DATE:	10-27-22
DRAWING DATE:	10-27-22
PROJECT NUMBER:	22061
SHEET NUMBER:	PFP-8