

MARSHALL CITY PLANNING COMMISSION
Wednesday, March 11, 2020
Council Chambers, 323 W. Michigan Ave., Marshall, MI

Call to Order

Roll Call

Approval of Agenda

Regular Meeting of the Planning Commission, March 11, 2020

Approval of Minutes

Minutes from January 8, 2020

Public Comments on Agenda Items

Public Hearings

None

New Business

1. Receive Site Plan #SP20.01 for Party Time Tents at 800 Industrial Road.
2. Review and consider approval for #SP20.01 for Party Time Tents at 800 Industrial Road.
3. Receive Site Plan #SP20.02 for Delta One Consulting at 420 W. Spruce.
4. Review and consider approval #SP20.02 for Delta One Consulting, 420 W. Spruce.

Old Business

None

Public Comment on Non-Agenda Items

Reports

Adjournment

MINUTES
MARSHALL CITY PLANNING COMMISSION
WEDNESDAY, January 8, 2020

In a regular session, Wednesday, January 8, 2020 at 7:00 p.m. at City Hall, Council Chambers, 323 West Michigan Avenue, Marshall, Michigan, the Marshall Planning Commission was called to order by Chair Davis.

ROLL CALL

Members Present: Chair Davis, Commissioners Burke Smith, Banfield, McNiff, Reed, and Schwartz

Members Absent: Commissioners Collins, Rodgers, Zuck and Council Liaison Metzger

Staff Present: Trisha Nelson, City Clerk & Planner

AGENDA

MOTION by McNiff, supported by Burke Smith to accept the agenda for the Wednesday, January 8, 2020 as submitted. On a voice vote; **MOTION CARRIED**.

MINUTES

MOTION by Banfield, supported by Burke Smith, to accept the minutes from the December 11, 2019 regular meeting. On a voice vote; **MOTION CARRIED**.

PUBLIC COMMENTS ON AGENDA ITEMS

None

PUBLIC HEARINGS

Chair Davis opened the public hearing on the Planning Commission Draft Capital Improvement Plan 2020-2026. Hearing no comment, the public hearing was closed.

Chair Davis opened the public hearing on the 2020-2024 Parks and Recreation Master Plan. Hearing no comment, the public hearing was closed.

NEW BUSINESS

MOTION by Banfield, supported by Burke Smith to recommend the Planning Commission Draft Capital Improvement Plan 2020-2026 to City Council. On a voice vote; **MOTION CARRIED**.

MOTION by McNiff, supported by Reed to recommend the 2020-2024 Parks and Recreation Master Plan to City Council.

Justin Miller, Superintendent of the Recreation Department, stated that he had been working on the Master Plan for around a year. In August surveys were sent out to 3,500 people over a variety of different methods and that over 400 were returned. The surveys, along with City Council's Vision and Goals, were then used to create the goals for the Master Plan.

Miller stated that goal one of the Master Plan was to make Marshall walkable and bikeable. To accomplish this goal, he would like to see a topographical map drawn up to see where there are sidewalks missing to make it safer for people to walk places. Goal two is maintain and enhance existing parks and facilities. This would include updating the Riverwalk and other parks in the city. Goal three is to use volunteer groups to improve community parks. Miller stated that the Ketchum Park Advisory Committee would be the model for this and that the idea is to get other park committees to follow their lead. Goal four is recreation program development. Miller stated that the survey stated that people would like to see more competitive youth sports and more adult and senior activities. He further stated that they are looking to partnerships with area pools for offering swim lessons and are creating more opportunities for outdoor recreation. Davis questioned if disc golf was included in the plans. Miller stated that there is currently a six-hole course at Ketchum Park. Burke Smith stated that there have been several Eagle Scouts who have looked into creating a disc golf course in town over the years, but there hasn't been the funding to support it.

Miller stated that goal five of the Master Plan is develop recreational opportunities and facilities that promote an active lifestyle. Miller further stated that 89% of those surveyed supported the creation of a recreation facility in town. This goal would also include the creation of a dog park, splash pad and pickleball courts if the appropriate places and funding can be found. Goal six is better usage of City Parks for programming and events. Miller stated that the Youngish Professionals are a good example of this with their concerts at the fountain in the summer, and that he is currently looking in to the possibility of doing a movie in the park as well.

Reed questioned how the budget compares to those of similarly sized municipalities. Miller stated that it is similar to others as their budgets are generally in the \$400,000-\$450,000 range. McNiff questioned what a recreation facility would look like. Miller stated that it would ideally have basketball courts, a track, and facilities for senior and children's programming among other things. Burke Smith stated that it sounds similar to the former Marshall Athletic Center, which never seemed to be used. Miller stated that the recreation department was not allowed to use it to run the majority of their programs by the building management. Banfield questioned the difference between parks and recreation. Miller stated that they are two separate departments within the city and that the recreation department is only responsible for the upkeep of the athletic fields as far as parks. Banfield questioned how long the township has been allowed to be part of the board. Miller stated that it has been that way his entire career. Banfield questioned if any money comes in from the township. Miller stated that they do not have a millage that supports the departments, but that they pay higher participation fees when they participate in recreation programs. Davis stated that the current board is made up of all City residents and that only the Brook's Nature Area Board has anyone from the township on it.

Banfield questioned if it was common practice to present a budget deficit for the department. Miller stated that he presents a balanced budget, but that occasionally it gets changed by the finance department. Nelson stated that if there is a budget deficit that there is a fund balance that council uses to cover that deficit. Miller stated that the department does not touch the general fund, and that any deficit is covered by a recreation fund. Davis thanked Miller for coming and for listening to the concerns of the commission.

OLD BUSINESS

Banfield questioned what was going on with the former Backroad's Saloon property. Nelson stated that there is a Joint Planning Commission meeting scheduled for January 14 to discuss the new application submitted by Stulberg for the zoning of the property. Nelson further stated that the new request will have it zoned I1 exclusively for Marijuana uses, otherwise it would revert back to a B4 zoning district. Banfield questioned how they are able to do that. Nelson stated that there is a state

statute that allows for conditional rezoning and that if it works well, a plan can be made to adopt it into the City Ordinance. Schwartz questioned what it would be zoned for. Nelson stated that it would allow any marihuana use that is allowed by ordinance in the I1 district. Nelson further stated that the zoning amendment is set to go before council in February.

PUBLIC COMMENTS NOT ON AGENDA

None

REPORTS

Trisha Nelson stated that she received an e-mail from Commissioner Collins stating that she is still wheelchair bound, but is hoping to regain her strength and see everyone soon.

Chair Davis stated that MAEDA lost Rebecca DeFinta and that they were currently looking into someone to replace her position as the tourism coordinator. He stated that the title of the position doesn't encompass the complete scope of work as in addition to tourism the position also coordinates several special events throughout the year, and that it will require a lot of organizational skills.

ADJOURN

Planning Commission adjourned at 7:30 p.m.

Submitted by,

Michelle Eubank

MARSHALL PLANNING COMMISSION
Staff report for March 11, 2020

To: Planning Commissioners
From: Trisha Nelson, Planning and Zoning Administrator
Subject: Party Time Tents, 800 Industrial Road

Case #: Site Plan #SP20.01
Zoning District: I-1 Research and Technical District
Adjacent Zoning: Surrounded by I-1 and I-2 to the South across Industrial Road.
Parcel: 53-002-508-00
Proposed Use: Commercial Use- 48 x 88 Warehouse

Staff received an initial site plan for the proposed Party Time Tents site at 800 Industrial Road. City staff reviewed the plan and met with the property owners. The building is proposed to be built on the north end of the lot and is surrounded by I-1 properties, however across Industrial Road is I-2. The owners wish to construct a 48 x 88 steel building to serve as warehouse space.



SITE PLAN REVIEW

The site plan has been submitted in a timely fashion and incorporated all of the revisions submitted by staff. The following is a summary of the final review:

- Lot coverage falls well within acceptable limits.
- The setbacks have been addressed. The lot is a corner lot, therefore having two front yards. The owner is seeking a dimensional variance from section 3.1.12 (D) to allow for a reduction of the front setback on Linden Street from 50 feet to 32 feet.
- The number of parking spaces required for this type of facility is 5 spaces + 1 per employee. There is ample room for parking. The owner is seeking a variance from section 5.14.8 (F) to allow for the parking area to remain gravel.
- No stamped landscape plan is required under the ordinance. They have included plantings along Industrial Road and Linden Street. The city has recently gone through and removed all of the trees along Linden Street for the relocation of a power line and wishes to not have trees replanted.

According to Section 6.3.12, Standards for Site Plan Approval, the Planning Commission shall consider the following standards during review:

- A. Adequacy of Information.
- B. Site Appearance and Preservation.
- C. Pedestrian Access.
- D. Vehicular Circulation.
- E. Parking and Loading.
- F. Building Composition.
- G. Screening.
- H. Exterior Lighting.
- I. Impact upon Public Services.

RECOMMENDATION

The Planning Commission is being asked to receive and consider approving the site plan for Party Time Tents. If there is a motion for approval of this plan, it should be contingent upon approval of the Variances being sought by the Zoning Board of Appeals. The Zoning Board of Appeals is scheduled to meet on March 19, 2020.



CITY OF MARSHALL

SITE PLAN
APPLICATION

City of Marshall
Application for Site Plan Review

Attn: Planning and Zoning Administrator
323 W Michigan Ave.
Marshall, Michigan, 49068

The following application is made to the City of Marshall Planning Commission in accordance with the provisions of the Planning and Zoning Department.

1. Applicant Information

Address of property being developed:

800 Ironstar Ross Marshall, MI 49068

Owner of property being developed:

Mark Loyce and Jason Divine

Owner's Address:

Marshall Michigan 49068

City

State

Zip

Owner's Phone Number:

Mark - 269-317-4357 Jason 269-400-0143

2. Owner's Agent if working for property owner.

Name and Title:

Address:

City

State

Zip

Phone Number:

City of Marshall
Application for Site Plan Review

3. Brief description of proposed project

New Construction of a 48x88
Warehouse Building on our Vacant
LOT

4. Property Information

Is this property located in a floodplain?

ND

NO

Is this property located in a wetland?

26,956 sq ft
4224

Land area in square feet?

Proposed building area in square feet?

Proposed paved area in square feet?

Existing paved area in square feet?

NO

Lake or stream within 500 feet?

Any other agencies contacted for
approvals?

If so, please list:

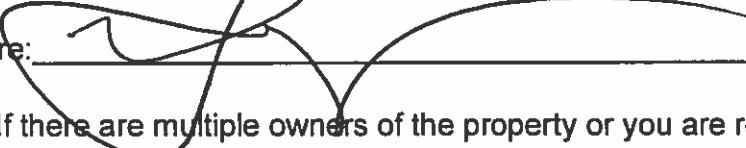
City of Marshall
Application for Site Plan Review

5. Authorization (Must be signed by the owner of the property)

I am the owner of record for this property for which this application is being filed and as such, I am familiar with the development being proposed to be carried out on my property.

I hereby, give permission for this application to be filed with the full understanding that certain restriction may be placed on the property relative to the approval of the proposed work.

I further certify that under penalties of perjury, I am to sign this application.

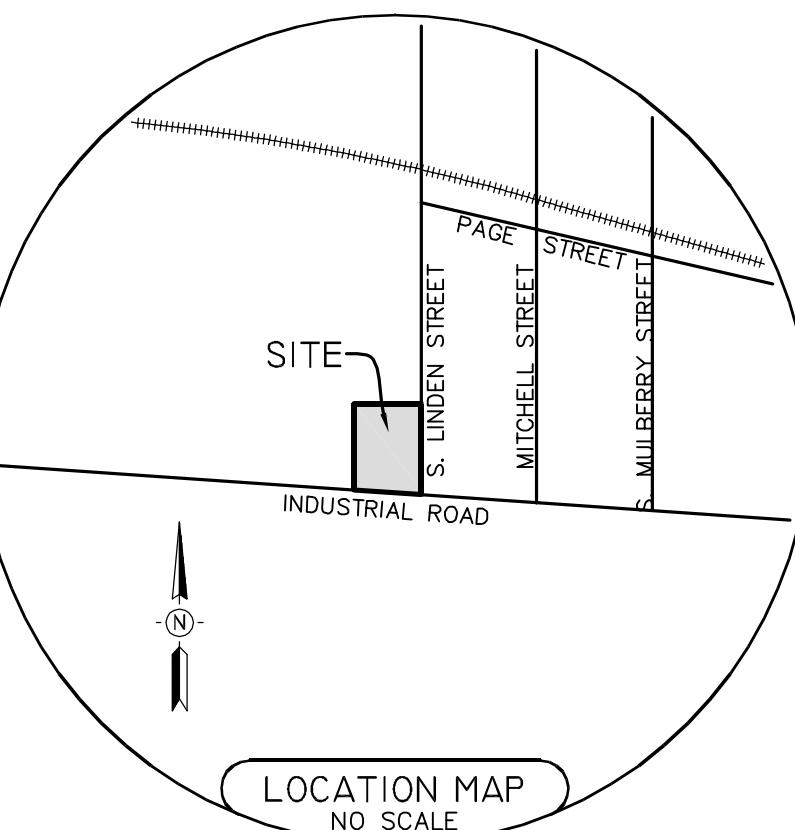
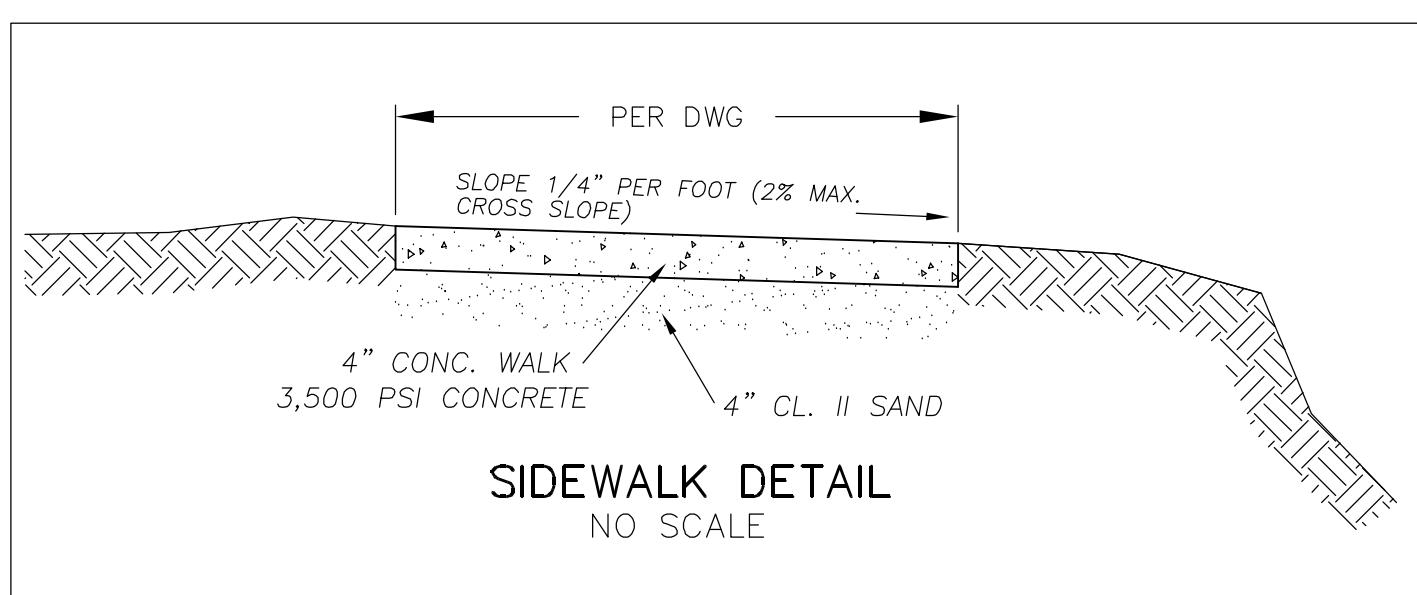
Name (Please Print) Mark Loyer
Title: Co-Owner Date: 2/19/2020
Signature: 

Note: If there are multiple owners of the property or you are representing a group, corporation, or other organization attach a copy of a certified letter authorizing you to sign this application for the proposed development.

LAND USE AND DEVELOPMENT FEES		
PLATS		
	Up to 30 Lots	\$450.00
	Over 30 Lots	\$650.00
SITE CONDOMINIMUMS		
	Up to 30 Lots	\$350.00
	Over 30 Lots	\$550.00
SITE PLANS		
Commercial and		\$250.00 < 30 acres
Institutional		\$250.00
Special Land Use		\$250.00
Planned Unit Development		\$350.00
Amend a PUD		\$150.00
Multiple Family Developments (Apartment &		\$50 plus \$5.00 per unit or lot
Additions to existing Site Plans if Planning Commission Review is required		\$100.00
Extending Site Plan with Planning Commission		\$150.00

SITE PLAN

FOR: PARTY TIME TENTS & MORE, INC.
800 INDUSTRIAL ROAD
MARSHALL, MI 49068



LEGAL DESCRIPTION (as provided, tax record interpreted):

Marshall City, part of Section 26, T2S, R6W; beginning Northwest Corner South Linden Street and Industrial Road, Westerly along North line Industrial Road 140.65 feet, North 186.7 feet, East to Linden Street, South to beginning.

SANITARY MANHOLE #1
RIM - 903.39

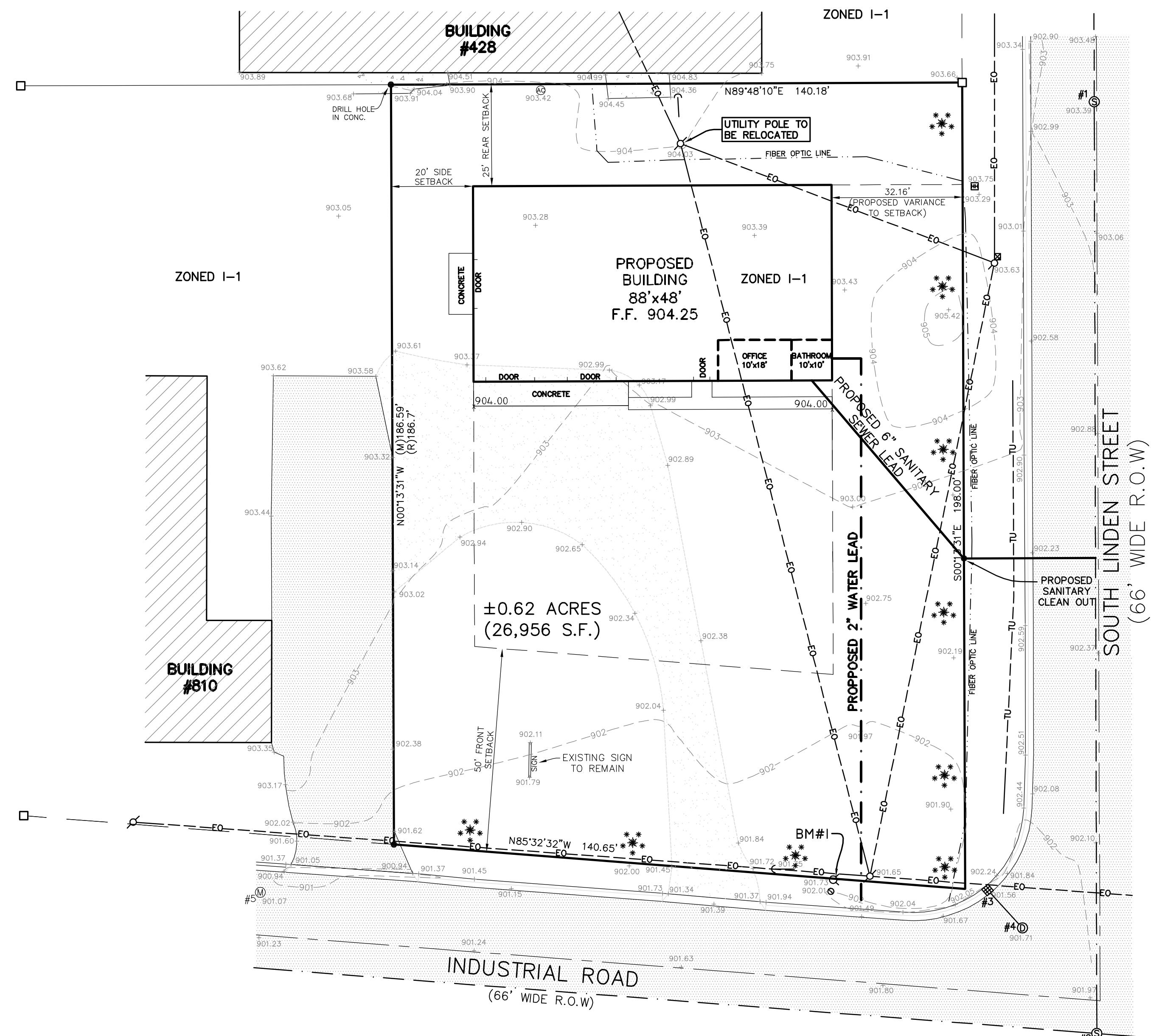
SANITARY MANHOLE #1
RIM - 903.39
12" NORTH 896.34
12" SOUTH 896.34

SANITARY MANHOLE #2
RIM - 901.83
12" NORTH 893.08
12" EAST 892.58
12" WEST 892.58

CATCH BASIN #3
INLET - 901.56
FULL OF WATER
NO INLET OR OUTLET
PIPES OBSERVED
TOP WATER 897.76

STORM MANHOLE #4
RIM - 901.71
12" NE 897.60

MANHOLE (UNSPECIFIED) #5
RIM - 901.07



BENCHMARKS

BM#1
ONE BOLT ON HYDANT
ELEVATION=903.77 (NAVD88)



LEGEND

●	= SET 1/2" BAR WITH CAP	(S)	= SANITARY MANHOLE
□	= FOUND IRON AS NOTED	(D)	= DRAINAGE MANHOLE
—	= DEED LINE	(M)	= MANHOLE (UNSPECIFIED)
— — —	= DISTANCE NOT TO SCALE	(C)	= CATCHBASIN
* — * — *	= FENCE	(F)	= FIRE HYDRANT
[Asphalt]	= ASPHALT	(V)	= VALVE
[Concrete]	= CONCRETE	(U)	= UTILITY POLE
[Gravel]	= GRAVEL	(G)	= GUY WIRE
903.39 +	= EXISTING SPOT ELEVATION	(P)	= UTILITY PEDESTAL
860	= EXISTING CONTOUR ELEVATION	(S)	= SIGN
— . — — —	= SANITARY SEWER	(P)	= POST
— — - — —	= STORM SEWER	(AC)	= AIR CONDITIONING UNIT
— . — . — —	= WATER LINE	(H)	= HANDHOLE
— — G — — —	= GAS LINE		
— — EO — — —	= OVERHEAD WIRES		
— — - - - — —	= FIBER OPTIC LINE		
— — TU — — —	= UNDERGROUND TELEPHONE		
(Tree)	= DECIDUOUS TREE		
x 903.55	= PROPOSED ELEVATION		
(* *)	= PROPOSED HYDRANGEA SURROUNDED WITH DAYLILIES		

SITE DATA

PROPOSED WAREHOUSE
TOTAL SITE AREA = 0.62 ACRES (26,956 S.F.).
ZONED I-1 (RESEARCH AND TECHNICAL DISTRICT)

BUILDING SETBACKS

BUILDING SETBACKS

FRONT -	N/A
SIDES -	20 FEET
REAR -	25 FEET

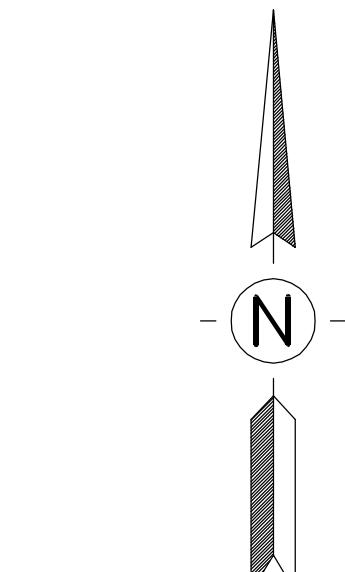
BUILDING/UNIT DATA

BUILDING/UNIT DATA

PROPOSED BUILDING AREA = 4,224 S.F.
PROPOSED WAREHOUSE AREA = 3,944 S.F.
PROPOSED OFFICE AREA = 180 S.F.
PROPOSED BATHROOM AREA = 100 S.F.
BUILDING HEIGHT = 18 FT.

PARKING

PARKING
REQUIRED:
WAREHOUSE 5 SPACES + 1 PER EMPLOYEE
TOTAL REQUIRED = 6 SPACES (INCL. 1 HCP)
TOTAL PROVIDED = 6 SPACES (9'x20')



A scale bar diagram consisting of a horizontal line divided into three segments. The first segment is white and labeled "20'". The middle segment is shaded and labeled "40'". The third segment is white. Above the bar, the text "SCALE 1" is followed by a double quotes symbol, and "20'" is written to its right.

REVISIONS	COMMENTS	KEBS, INC.		ENGINEERING AND LAND SURVEYING
2/18/20	ORIGINAL	 <p>13432 PRESTON DRIVE, MARSHALL, MI 49068 PH. 269-781-9800 FAX. 269-781-9805</p>		
2/25/20	REVISE PARKING			
		<p>2116 HASLETT ROAD, HASLETT, MI 48840 PH. 517-339-1014 FAX. 517-339-8047 WWW.KEBS.COM</p>		
		DRAWN BY	BEB	SECTION 26, T2S, R6W
		FIELD WORK BY	MJG	JOB NUMBER: 96134
		SHEET	1 OF 1	

MICHAEL A. GROAT
PROFESSIONAL SURVEYOR NO. 39079

MARSHALL PLANNING COMMISSION
Staff report for March 11, 2020

To: Planning Commissioners
From: Trisha Nelson, Planning and Zoning Administrator
Subject: Delta-One, 420 W. Spruce Street

Case #: Site Plan #SP20.02
Zoning District: I-1 Research and Technical District
Adjacent Zoning: Surrounded by I-1 and B-4 on the East (Marshall Lumber)
Parcel: 53-000-709-01
Proposed Use: Marihuana Grow Facility

Staff received an initial site plan for the Delta-One site at 420 W Spruce Street. City staff reviewed the plan with the owners on February 3, 2020. Suggested revisions were given to the owners and have been made as requested. A few of the suggested revisions included:

- The parking surface requires pavement
- A letter requesting the vacating of Sycamore Street and Spruce Street
- Provide additional utility information to the City

The current building is being utilized on the site and will be renovated to required standards. The size of the building footprint is 9,994 sq. ft. The property is zoned I-1, which permits the proposed use of a Marihuana grow facility in the City.



SITE PLAN REVIEW

The site plan has been submitted in a timely fashion and incorporated all of the revisions submitted by staff. The following is a summary of the final review:

- Setbacks: no proposed changes to existing building.
- Adequate Parking is provided.
- A request has been submitted for the vacating of Sycamore Street and Spruce Street. City Staff is in support of this to clean up the area to allow more of a "campus" type setting when expanding in the future. Delta-One has submitted a conceptual "overall site plan in your packet. (Site Plan Page PSP-2.1)

According to Section 6.3.12, Standards for Site Plan Approval, the Planning Commission shall consider the following standards during review:

- A. **Adequacy of Information.**
- B. **Site Appearance and Preservation.**
- C. **Pedestrian Access.**
- D. **Vehicular Circulation.**
- E. **Parking and Loading.**
- F. **Building Composition.**
- G. **Screening.**
- H. **Exterior Lighting.**
- I. **Impact upon Public Services.**

RECOMMENDATION

The Planning Commission is being asked to receive and consider approving the site plan #SP20.02 for 420 W. Spruce. If there is a motion for approval of this plan, it should be contingent upon approval of the Vacating of Sycamore Street and W. Spruce Street. City Council will be receiving the request for Public Hearing on March 16, 2020 and hold the public on April 20, 2020.



CITY OF MARSHALL

SITE PLAN
APPLICATION

City of Marshall
Application for Site Plan Review

Attn: Planning and Zoning Administrator
323 W Michigan Ave.
Marshall, Michigan, 49068

The following application is made to the City of Marshall Planning Commission in accordance with the provisions of the Planning and Zoning Department.

1. Applicant Information

Address of property being developed:

420 W. SPRUCE, MARSHALL MI

Owner of property being developed:

Delta One Consulting LLC.

Owner's Address:

150 W. 2nd St. #250 Royal Oak MI 48067

City

State

Zip

Owner's Phone Number:

(248) 736 9866

2. Owner's Agent if working for property owner.

Name and Title:

Doug Stewart (Member)

Address:

150 W. 2nd St. #250 Royal Oak MI 48067

City

State

Zip

Phone Number:

(248) 736 9866

City of Marshall
Application for Site Plan Review

3. Brief description of proposed project

Developing the interior of the existing building. Make all Repairs to Building - Make all Required Changes/Additions to construct Commercial Grow Facility with Parking lot area.

4. Property Information

Is this property located in a floodplain?

NO

Is this property located in a wetland?

NO

Land area in square feet?

.98 acres / 42,689 SF

Proposed building area in square feet?

9,994 SF

Proposed paved area in square feet?

4,727 SF

Existing paved area in square feet?

N/A

Lake or stream within 500 feet?

NO

Any other agencies contacted for approvals?

YES

If so, please list:

x MRA : LWRRA - Medical Marijuana Agency.

City of Marshall
Application for Site Plan Review

5. Authorization (Must be signed by the owner of the property)

I am the owner of record for this property for which this application is being filed and as such, I am familiar with the development being proposed to be carried out on my property.

I hereby, give permission for this application to be filed with the full understanding that certain restriction may be placed on the property relative to the approval of the proposed work.

I further certify that under penalties of perjury, I am to sign this application.

Name (Please Print) Doug Stewart

Title: Member Project Manager Date: 1/27/2020

Signature: 

Note: If there are multiple owners of the property or you are representing a group, corporation, or other organization attach a copy of a certified letter authorizing you to sign this application for the proposed development.

LAND USE AND DEVELOPMENT FEES		
PLATS		
	Up to 30 Lots	\$450.00
	Over 30 Lots	\$650.00
SITE CONDOMINIMUMS		
	Up to 30 Lots	\$350.00
	Over 30 Lots	\$550.00
SITE PLANS		
Commercial and		\$250.00 < 30 acres
Institutional		\$250.00
Special Land Use		\$250.00
Planned Unit Development		\$350.00
Amend a PUD		\$150.00
Multiple Family Developments (Apartment &		\$50 plus \$5.00 per unit or lot
Additions to existing Site Plans if Planning Commission Review is required		\$100.00
Extending Site Plan with Planning Commission		\$150.00

DELTA 1 CONSULTING

150 W. 2nd Street # 250
Royal Oak, Michigan 48067
TELEPHONE: (248) 736-9866
FACSIMILE: (248) 353-2514

MARCH 4, 2020.

REFERENCE TO; 420 W SPRUCE, MARSHALL, MICHIGAN

TO THE CITY OF MARSHALL,

WE AT DELTA ONE CONSULTING, LLC. ARE REQUESTING THE CITY VACATE SYCAMORE STREET AND W. SPRUCE ST. IN THE CITY OF MARSHALL. IN ORDER TO DEVELOP OUR PROJECT AT 420 WEST SPRUCE. WE WILL ASSUME ALL RESPONSIBILITY OF THE AREA REQUESTED, TO DEVELOP AND MAINTAIN.

THIS WILL ALLOW FOR REQUIRED PARKING, FENCED IN SECURITY, LANDSCAPING AND LIGHTING AS REQUESTED BY THE CITY, AS WELL AS ADDITIONAL FUTURE DEVELOPMENT.

RESPECTFULLY,

Doug Stewart
Delta One Consulting, LLC

3/4/2020

PROPOSED SITE PLAN DRAWINGS

DELTA ONE - 420 SPRUCE - MARSHALL

420 SPRUCE STREET
MARSHALL, MICHIGAN

LEGAL DESCRIPTION (AS SURVEYED)

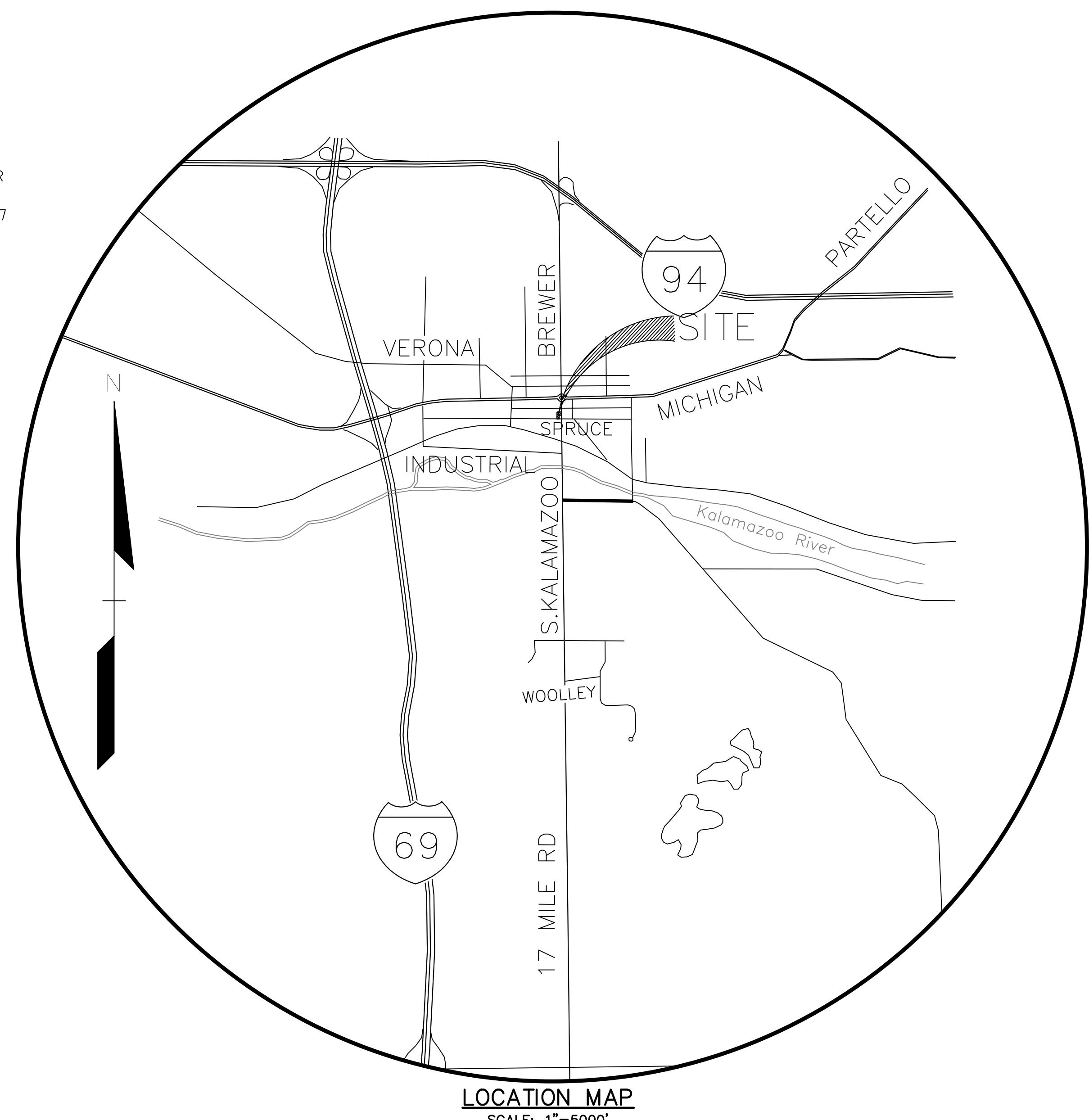
DESCRIPTION (TAX # 53-000-709-01):

THE SOUTH 68 FEET OF LOT 9, BLOCK 33, OF THE VILLAGE OF MARSHALL, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 3 OF PLATS, ON PAGE 11, IN THE OFFICE OF THE REGISTER OF DEEDS FOR CALHOUN COUNTY, MICHIGAN.
(PART OF NE 1/4, SECTION 26, T2S, R6W)

ALSO: DESCRIPTION (QUIT CLAIM DEED REC. LIBER 2106 PAGE 602) (TAX #53-002-506-00)

SITUATED IN THE CITY OF MARSHALL, COUNTY OF CALHOUN, AND STATE OF MICHIGAN.

COMMENCING AT A POINT WHERE THE EAST LINE OF Sycamore Street EXTENDED SOUTH
INTERSECTS THE SOUTH LINE OF SPRUCE STREET, BEING 4 RODS SOUTH OF THE SOUTHWEST OCRNER
OF LOT NUMBER 9 IN BLOCK 33; THENCE EAST ON THE SOUTH LINE OF SPRUCE STREET 8 RODS;
THENCE SOUTH 157.4 FEET TO THE MICHIGAN CENTRAL RAILROAD RIGHT OF WAY; THENCE WEST 82.67
FEET; THENCE NORTH 30.3 FEET; THENCE WEST 49.33 FEET TO THE POINT DIRECTLY SOUTH OF THE
PLACE OF BEGINNING; THENCE NORTH 127.1 FEET TO THE PLACE OF BEGINNING. ALL IN THE CITY OF
MARSHALL, COUNTY OF CALHOUN AND STATE OF MICHIGAN.
(PART OF SE 1/4, SECTION 26, T2S, R6W)



LANDSCAPE ARCHITECT:

FELINO A. PASCUAL + ASSOCIATES, RLA
24333 ORCHARD LAKE ROAD, STE G
FARMINGTON HILLS, MI 48336
PHONE: (248) 557-5588
CONTACT: FELINO PASCUAL (JOEL), RLA

ARCHITECT:

ZACK OSTROFF & ASSOCIATES
29114 WILDBROOK
SOUTHFIELD, MI 48034
PHONE: (248) 352-0461
CONTACT: GERALD GRUBEY, RA

ENGINEER:

STOREY ENGINEERING GROUP, LLC
48264 MANCHESTER
MACOMB, MI 48044
PHONE: (586) 216-1043
CONTACT: TIM S. STOREY, PE

DEVELOPER:

DELTA ONE
150 W 2ND STREET, SUITE 250
ROYAL OAK, MI 48067
PHONE: (248) 793-9866
CONTACT: DOUG STEWART

DES.	TSS	DN.	TSS	SUR.	CARR	P.M.	TSS
2	3-5-20						REVISED PER CITY COMMENTS
1	2-4-20						REVISED PER CITY COMMENTS
							No. Date By Description

REVISIONS

CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

3 FULL WORKING DAYS BEFORE YOU DIG CALL

811
Know what's below
Call before you dig
MISS DIG System, Inc.

1-800-482-7171 www.missdig.net
(TOLL FREE)

SEG

**STOREY
ENGINEERING
GROUP, LLC**
48264 MANCHESTER
MACOMB, MI 48044
(586) 216-1043
www.storeyengineering.com

DELTA ONE
150 W 2ND STREET, SUITE 250
ROYAL OAK, MI 48067

COVER SHEET - DELTA ONE
420 W SPRUCE
420 W SPRUCE
T2S, R6W, EAST 1/2 SECTION 26, CITY OF MARSHALL, CALHOUN COUNTY, MI

ORIGINAL ISSUE DATE:
11/16/2019

Project No. 2019-013

DRAWING NUMBER:
PSP-0.0

S:\SEG\2019 PROJECTS\2019-013 420 SPRUCE STREET - MARSHALL\DWG\SITE PLANS\PSP-0.0 COVER.DWG

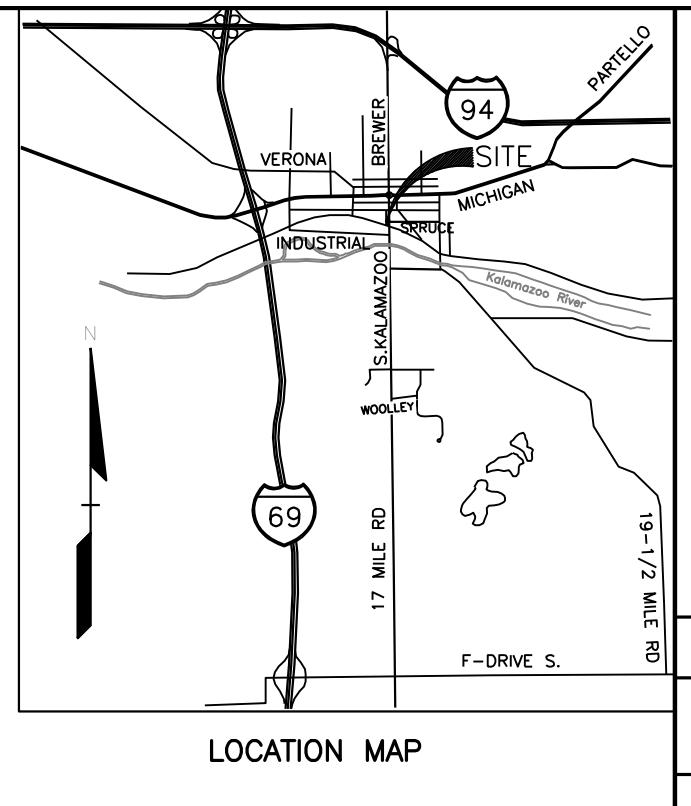
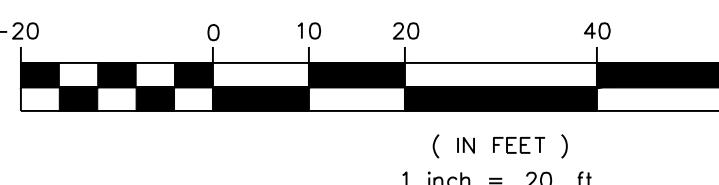
BENCHMARKS

DATUM: NAVD88

BM A:
RIM OF STORM CATCH BASIN SOUTH SIDE OF W SPRUCE STREET, 96 FEET
WEST OF S KALAMAZOO STREET
ELEV = 903.56

BM B:
RIM OF STORM CATCH BASIN NORTH SIDE OF W SPRUCE STREET, 96 FEET
WEST OF S KALAMAZOO STREET
ELEV = 904.14

GRAPHIC SCALE



LEGEND

- SET IRON STAKE
- FOUND IRON STAKE
- △ SET MAG NAIL
- SET WOOD STAKE
- CONCRETE MONUMENT
- M CONCRETE PLATE
- R RECORDED DATA
- F FIRE HYDRANT
- WATER VALVE
- FENCE
- △ NOT TO SCALE
- W OVERHEAD WATER LINE
- U OVERHEAD ELECTRIC LINE
- C OVERHEAD COMMUNICATIONS LINE
- ST STORM SEWER
- SAN SANITARY SEWER
- DECIDUOUS TREE
- TELEPHONE PEDESTAL
- CATCH BASIN/CURB INLET
- UTILITY POLE

CAUTION!

The location and elevation of existing underground utilities as shown on this drawing are not guaranteed to be either expressed or implied to be complete, accurate or reliable. It is the responsibility of the excavator to determine the exact locations and elevations prior to the start of construction.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE CONSTRUCTION ACTIVITIES AND THE SAFETY OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY INVOLVED. CONTRACTOR AGREES TO MAKE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO THE REQUIREMENTS OF THE CONTRACT. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS FROM ANY AND ALL LIABILITY, REAL OR OTHERWISE, WHICH MAY ARISE OUT OF OR IN CONNECTION WITH THE PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

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(586) 216-1043
www.storeyengineering.com

STORM SEWER SCHEDULE

ID	RIM EL	TYPE	INV EL	INV DESC
1	905.10	STMH	905.10	MANHOLE NOT FOUND
2	905.10	STMH	905.10	24" VCP EAST
3	905.06	STMH	905.06	12" RCP EAST
4	904.81	INLET	904.81	12" RCP EAST
5	906.39	INLET	906.39	12" RCP EAST
6	906.32	INLET	906.32	12" RCP EAST
7	904.65	CB	904.65	12" VCP NW
8	904.72	CB	904.72	NO PIPES FOUND. BOT = 901±
9	903.56	CB	903.56	NO PIPES FOUND. BOT = 900±
10	904.14	CB	904.14	8" VCP EAST
11	904.59	CB	904.59	10" VCP WEST
12	904.33	CB	904.33	12" RCP SSE
13	904.89	INLET	904.89	6" VCP NORTH
			x9076	15" VCP SOUTH

SANITARY SEWER SCHEDULE

ID	RIM EL	TYPE	INV EL	INV DESC
1	905.21	SMH	905.21	MANHOLE NOT FOUND
2	905.21	SMH	893.34	18" NORTH*
			893.34	18" SOUTH*
			893.29	15" WEST*
			896.84	8" NORTH*

* NOTE: RIM ELEV. MEASURED, BUT INV. ELEV. SHOWN PER PLANS, DID NOT OPEN MANHOLE #2

x9073

NOTE

BASE SURVEY INFORMATION PROVIDED BY CRANE LAND SURVEYING, PC (9-16-19)
ADDITIONAL SURVEY INFORMATION ADDED BY STOREY ENGINEERING GROUP (10-6-19)

DESCRIPTION (TAX # 53-000-709-01)

THE SOUTH 68 FEET OF LOT 9, BLOCK 33, OF THE VILLAGE OF MARSHALL, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 3 OF PLATS, ON PAGE 11, IN THE OFFICE OF THE REGISTER OF DEEDS FOR CALHOUN COUNTY, MICHIGAN.
(PART OF NE 1/4, SECTION 26, T2S, R6W)

ALSO DESCRIPTION (QUIT CLAIM DEED REC LIBER 2106, PAGE 602) (TAX #53-002-506-00)

SITUATED IN THE CITY OF MARSHALL, COUNTY OF CALHOUN, AND STATE OF MICHIGAN
COMMENCING AT A POINT WHERE THE EAST LINE OF SYCAMORE STREET EXTENDED SOUTH
INTERSECTS THE SOUTH LINE OF SPRUCE STREET, BEING 40 RDS SOUTH OF THE SOUTHWEST CORNER
OF LOT NUMBER 9 IN BLOCK 33, THENCE EAST ON THE SOUTH LINE OF SPRUCE STREET 8 RODS,
THENCE SOUTH 157 4 FEET TO THE MICHIGAN CENTRAL RAILROAD RIGHT OF WAY, THENCE WEST 82 67
FEET, THENCE NORTH 30 3 FEET, THENCE WEST 49 33 FEET TO THE POINT DIRECTLY SOUTH OF THE
PLACE OF BEGINNING, THENCE NORTH 127 1 FEET TO THE PLACE OF BEGINNING. ALL IN THE CITY OF
MARSHALL, COUNTY OF CALHOUN AND STATE OF MICHIGAN
(PART OF SE 1/4, SECTION 26, T2S, R6W)

NOTES

- ELEVATIONS ARE BASED ON NAVD88 DATUM AS MEASURED BY RTK GPS SURVEY USING MCRS CONTOURS ARE SHOWN AT 10' INTERVALS, WITH INDEX CONTOURS EVERY 5'.
- HORIZONTAL DATUM IS NAD83, MICHIGAN STATE PLANE GRID COORDINATES, SOUTH ZONE.
- INTERNATIONAL FEET.
- THIS SURVEY DOES NOT SHOW EASEMENTS OR OTHER ENCUMBRANCES THAT MAY AFFECT THE PROPERTY. NO TITLE SEARCH HAS BEEN PROVIDED TO OR PERFORMED BY LSC.
- BOUNDARY SURVEY IS BASED ON DEED RECORDED ON 2/12/1999 IN LIBER 2106, PAGE 602. NO OTHER SEARCH IN TITLE HAS BEEN PROVIDED TO OR MADE BY LSC. THIS SURVEY IS SUBJECT TO A MORE THOROUGH TITLE SEARCH.
- THE SOUTHERN BOUNDARY ABUTTING THE RAILROAD RIGHT-OF-WAY CONFLICTS WITH THAT SHOWN ON SURVEY BY EP CHASE DATED 11/28/1939. A TITLE SEARCH WOULD BE NEEDED TO RESOLVE THE CONFLICT.
- SPRUCE STREET IS SHOWN AS PER CONSTRUCTION DRAWING FROM PREIN + NEWHOF, 1989. HOWEVER CALHOUN COUNTY GIS INDICATES THIS PORTION IS NOT INCLUDED IN THE "PLAT OF THE VILLAGE OF MARSHALL". A PORTION OF PROPERTY THAT APPEARS TO BE USED AS SPRUCE STREET IS SHOWN OUTSIDE OF THE R/W. THIS DISCREPANCY HAS NOT BEEN RESOLVED AT THE TIME OF THIS SURVEY.
- THE BUILDING ON PARCEL #53-000-709-01 ENCROACHES AS SHOWN.
- UTILITIES ARE SHOWN BASED ON THEIR ABOVE GROUND SURFACE IMPROVEMENTS AND MAPS PROVIDED BY THE CITY OF MARSHALL ONLY. THE CITY DOES NOT HAVE A GOOD RECORD OF THE SEWER LEAD LOCATIONS. LOCATIONS SHOWN ARE BEST-GUESS LOCATIONS AND NEED TO BE FIELD VERIFIED. PLEASE CALL MISS-DIG PRIOR TO EXCAVATION.

OVERALL BOUNDARY + TOPOGRAPHIC SURVEY	
420 W SPRUCE - DELTA ONE	
T2S R6W, EAST 1/12 SECTION 26, CITY OF MARSHALL, CALHOUN COUNTY, MI	
DES.	TSS
DN	TSS
SUR.	CARR
P.M.	TSS

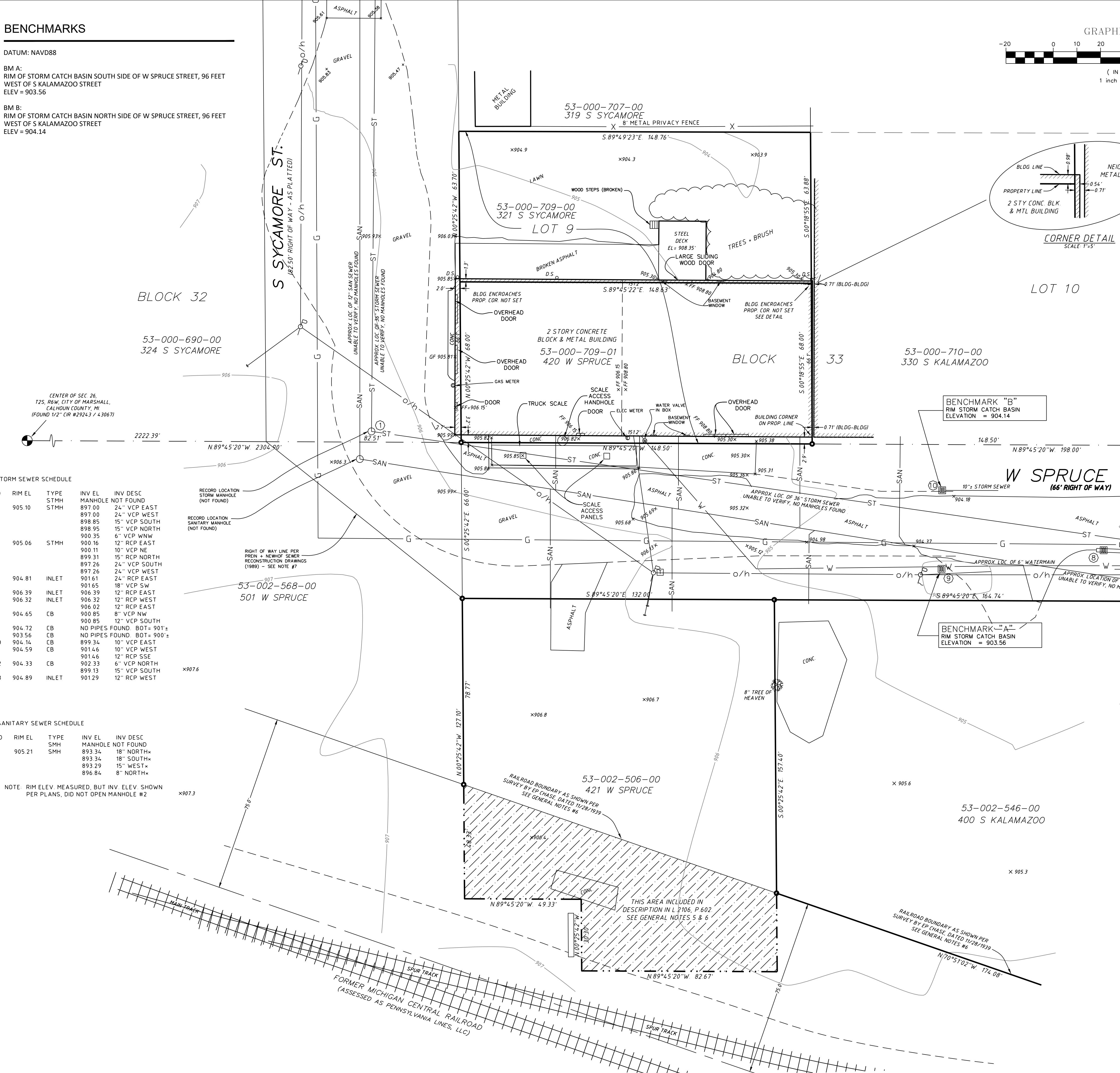
ORIGINAL ISSUE DATE:
11/16/2019

Project No. 2019-013

SCALE: 1" = 20'

DRAWING NUMBER:

PSP-1.0



BENCHMARKS

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ELEV = 903.56

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RIM OF STORM CATCH BASIN NORTH SIDE OF W SPRUCE STREET, 96 FEET
WEST OF S KALAMAZOO STREET
ELEV = 904.14

PROPOSED LIGHT POLE, TYP. REFER TO PHOTOMETRIC PLAN.

NOTE: KNOX BOX SHALL BE LOCATED OUTSIDE THE GATE.

PROVIDE CONCRETE COLLAR AROUND CATCH BASIN WITHIN PROPOSED ASPHALT PAVING AS SHOWN. REFER TO DETAIL ON SHEET PSP-4.1.

PERIMETER FENCING TO BE 8' HIGH CHAIN LINK FENCE. MAIN GATE SHALL BE LOCKED EXCEPT DURING NORMAL DAYTIME BUSINESS HOURS.

BLOCK 32

INDICATES THE NUMBER OF PARKING SPACES PER AISLE, TYP.

53-000-690-00
324 S SYCAMORE
ZONED I-1 (RESEARCH AND MANUFACTURING)

CENTER OF SEC 26,
T25, R6W, CITY OF MARSHALL,
CALHOUN COUNTY, MI
(FOUND 1/2" CIR #29243 / 43067)

6' HIGH, MASONRY TRASH ENCLOSURE, TYP. W/OPAQUE WOODEN GATES. REFER TO DETAIL ON SHEET PSP-4.1.

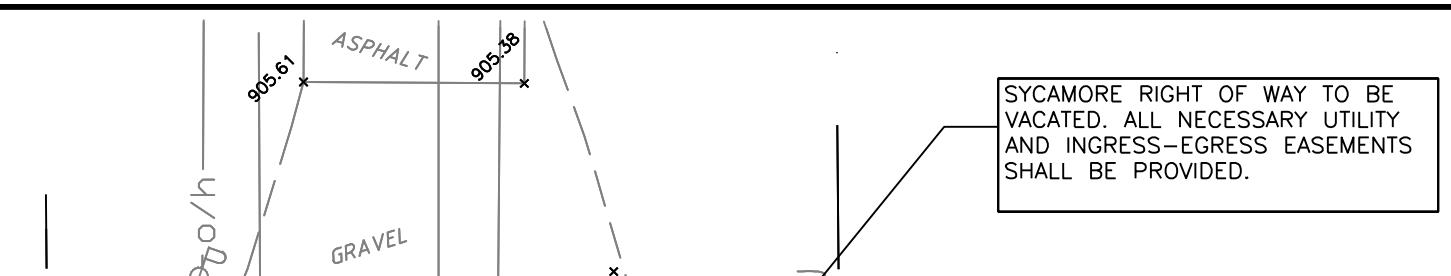
NOTE: PROVIDE 4" BLUE STRIPING ON PAVEMENT AT ALL BARRIER-FREE PARKING SPACES. PROVIDE PAINTED BARRIER-FREE PARKING SYMBOL WITHIN SPACE. REFER TO BARRIER-FREE SYMBOL FOR PARKING DETAIL ON SHEET PSP-4.1.

RIGHT OF WAY LINE PER
PREI + NEWHOP SEWER
RECONSTRUCTION DRAWINGS
(1988) - SEE NOTE #1

53-002-568-00
501 W SPRUCE
ZONED I-1 (RESEARCH AND MANUFACTURING)

SITE INFORMATION:

- The zoning classification of the property is I-1 (RESEARCH & MANUFACTURING). The proposed use is a Greenhouse with on-site packaging. The use is an allowable use.
- All exterior lighting shall be shielded from adjacent properties. Poles shall be 25' maximum height. Exterior lighting shall be shielded down and directed away from off-site areas (1.0 foot candle maximum at property line).
- Any signs shall meet the requirements of the zoning Ordinance for the City of Marshall. Separate permits are required for sign installation and shall be applied for separately.
- All roof and ground mounted mechanical equipment shall be screened from adjacent roads and properties.
- The building shall be designed & constructed in accordance with all applicable fire codes. Refer to Architectural drawings for fire safety/code requirements. A knox box shall be provided at gates for use by the Fire Department in case of emergency access to the site and buildings.
- Fire lanes shall be designated by the Fire Code Official, and shall be conspicuously posted on both sides of the fire lane, with fire lane signs spaced not more than 100 feet apart, and in conformance with the MMUTCD.
- Hours of operation will be continuous, 7 days a week. However, packaging will only occur Monday thru Friday 8am to 6pm. For security reasons there will be no access allowed by the general public, only employees, delivery and security personnel will be allowed on the property.
- There will be no composting on site. Compostable materials will be picked up by a waste recycling company.
- Maximum allowable Building height is 45'. Existing Building height is approximately 22'.
- Building Area:
Existing Building footprint = 9,994 sf.
- Setbacks: Building is existing with no proposed changes to the building setbacks. (See plan for dimensions).
- All pedestrian walkways and required egress doors shall comply with Michigan Barrier Free Design criteria.
- Parking Required (per City of Marshall Ordinance) = 5 plus 1 space/employee in largest shift = 5 + 15 Employees = 20 (20 spaces required).
- Parking Provided:
19 - 9' x 20' Spaces
1 - 8' x 20' Barrier Free Spaces
20 Total Parking Spaces provided
- Max Number of Employees in any one shift = 15
- Phase 1 site area = 0.98 acres
- No storm water detention is proposed, site is less than 1 acre.
- Locations of all ground signs are indicated on sheet PSP-2.0 (none are proposed).
- Open burning is not permitted including the burning of trash, debris or land clearing materials.
- SITE SHALL BE PROVIDED WITH SECURITY CAMERAS MONITORED 24 HOURS A DAY CONTINUOUSLY.



ZONED I-1 (RESEARCH AND MANUFACTURING)

53-000-707-00

319 S SYCAMORE

X 8' METAL PRIVACY FENCE

REPAIR EXISTING STEEL DECK AS NECESSARY.

REMOVE AND REPLACE EXISTING STEPS.

LARGE DOOR TO BE REMOVED, PARTIALLY FILLED IN AND A NEW MAN DOOR INSTALLED. REFER TO ARCHITECTURAL.

PROPOSED TRANSFORMER, A/C & GENERATOR PAD, TYP. COORDINATE WITH APPROPRIATE UTILITY COMPANY.

S.89°49'23"E. 148.76'

x904.3

LOT 9

STEEL DECK
EL= 908.35'

LARGE SLIDING WOOD DOOR

0.71' (BLDG-BLDG)

PROPOSED BUILDING MOUNTED LIGHT, TYP. REFER TO PHOTOMETRIC PLAN.

REFERS TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS, TYP.

OVERHEAD DOOR

ZONED I-1 (RESEARCH AND MANUFACTURING)

53-000-709-01

420 W SPRUCE

NOTE: PROPOSED DOWNSPOUTS SHALL SPILL ON GRADE WITH SPLASH BLOCK, TYP.

REFERS TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS, TYP.

OVERHEAD DOOR

ZONED I-1 (RESEARCH AND MANUFACTURING)

53-000-709-01

420 W SPRUCE

NOTE: PROPOSED DOWNSPOUTS SHALL SPILL ON GRADE WITH SPLASH BLOCK, TYP.

REFERS TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS, TYP.

OVERHEAD DOOR

ZONED B-4 (REGIONAL COMMERCIAL)

53-000-710-00

330 S KALAMAZOO

NOTE: PROPOSED DOWNSPOUTS SHALL SPILL ON GRADE WITH SPLASH BLOCK, TYP.

REFERS TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS, TYP.

OVERHEAD DOOR

BENCHMARK "B"
RIM STORM CATCH BASIN ELEVATION = 904.14

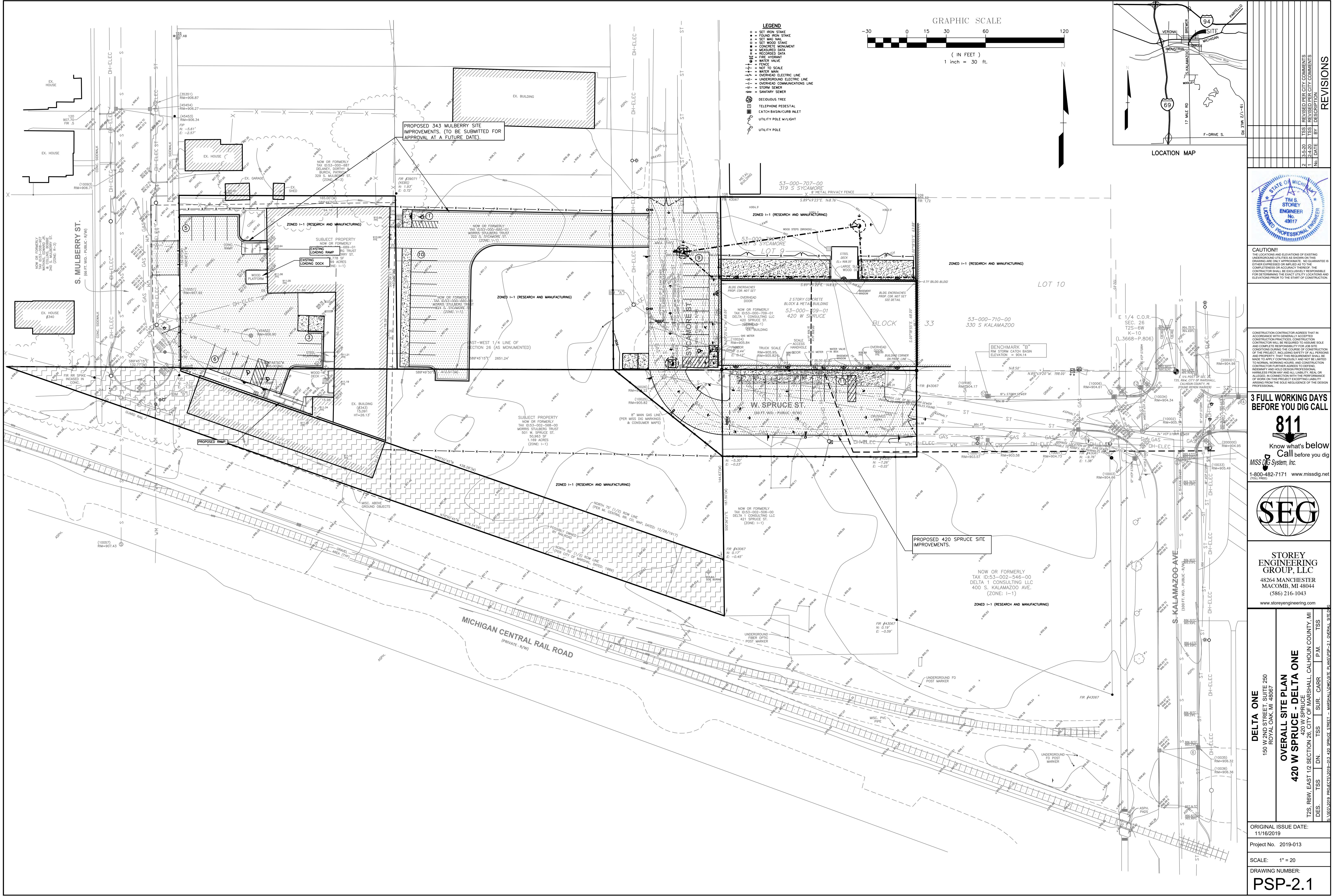
0.71' (BLDG-BLDG)

APPROX LOC. OF 6" WATERMAIN

N.89°45'20"W. 198.00'

APPROX LOC. OF 15" SAN SEWER

N.89°45'20"W. 198.



BENCHMARKS

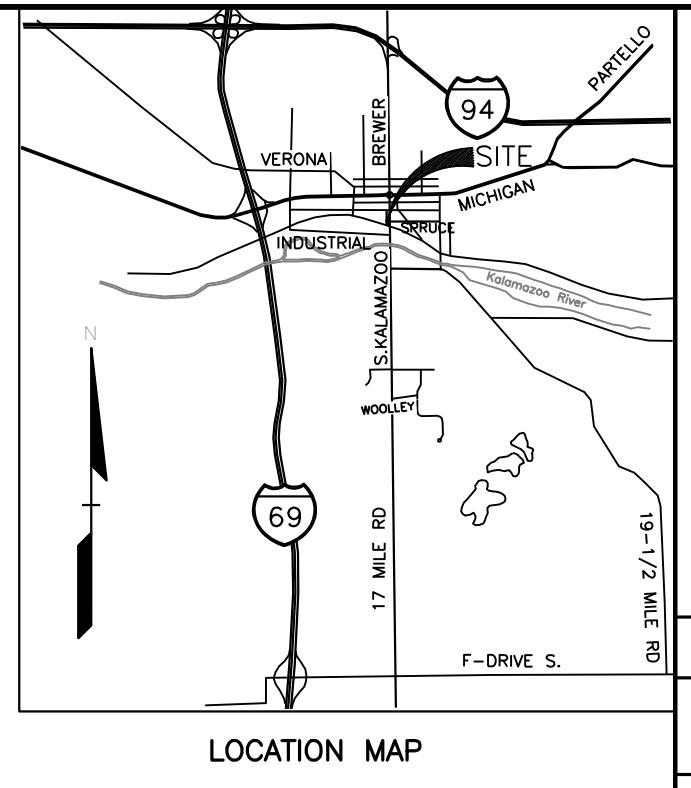
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ELEV = 904.14

GRAPHIC SCALE

-20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.



LOCATION MAP



CAUTION!
THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE NOT GUARANTEED TO BE EITHER EXPRESSED OR IMPLIED AS THOSE UTILITIES MAY HAVE BEEN MOVED SINCE THE DATE OF THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

LEGEND
SET IRON STAKE
FOUND IRON STAKE
SET MAG NAIL
SET WOOD STAKE
CONCRETE MONUMENT
MEASURED DATA
RECORDED DATA
FIRE HYDRANT
WATER VALVE
FENCE
NOT TO SCALE
OVERHEAD LINE
UNDERGROUND ELECTRIC LINE
OVERHEAD COMMUNICATIONS LINE
STORM SEWER
SANITARY SEWER
DECIDUOUS TREE
TELEPHONE PEDESTAL
CATCH BASIN/CURB INLET
UTILITY POLE W/LIGHT
UTILITY POLE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION IS THE SOLE CONCERN AND COMPLETE RESPONSIBILITY FOR JOB SITE CONSTRUCTION. THE CONTRACTOR AGREES TO MAINTAIN THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND TO MAKE ALL NECESSARY ARRANGEMENTS TO MAKE THE PROJECT SAFE TO WORK ON. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS FROM ANY AND ALL LIABILITY, REAL OR OTHERWISE, WHICH MAY ARISE OUT OF OR IN CONNECTION WITH THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

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PROPOSED GRADING PLAN
420 W SPRUCE - DELTA ONE
T2S R6W, EAST 1/2 SECTION 26, CITY OF MARSHALL, CALHOUN COUNTY, MI
420 W SPRUCE - MARSFIELD/WHITE PLAINS SP-3.0 GRADE Dwg
DES TSS DN TSS SUR. CARR P.M. TSS

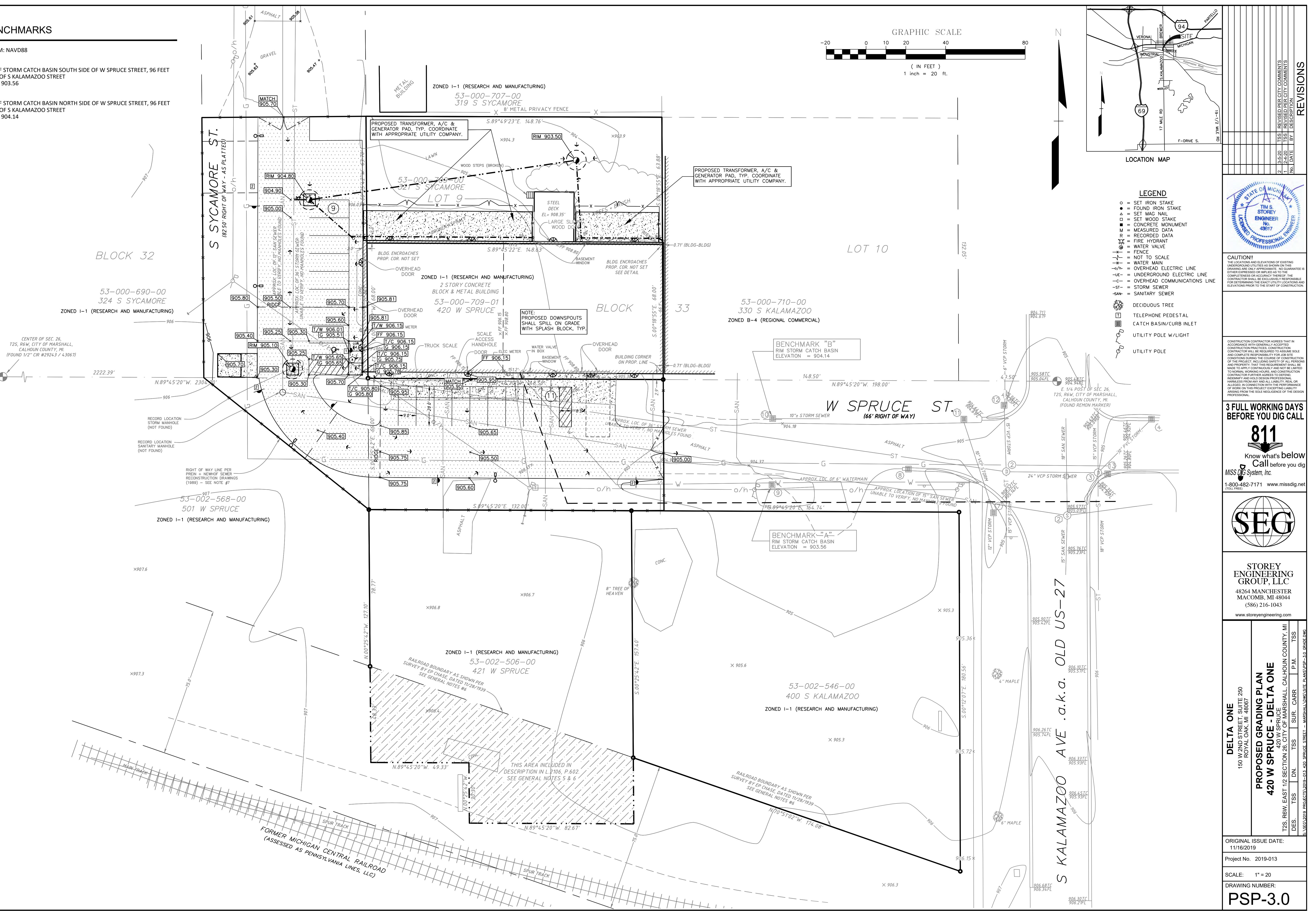
ORIGINAL ISSUE DATE:
11/16/2019

Project No. 2019-013

SCALE: 1" = 20'

DRAWING NUMBER:

PSP-3.0



GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF MARSHALL AND CALHOUN COUNTY.
- ALL NECESSARY PERMITS, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL MUNICIPAL INSPECTION FEES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL DURING THE PERIODS OF CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO THE JOB.
- PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT MISSISSIPPI MISSISSIPPI (1-800-482-7171) TO VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES AND SHALL NOTIFY OTHER REPRESENTATIVES OF OTHER UTILITIES IN THE VICINITY OF THE WORK.
- ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
- MANHOLE, CATCH BASIN, GATE VALVES AND HYDRANT FINISH GRADES MUST BE CLOSELY CHECKED AND APPROVED BY THE ENGINEER BEFORE THE CONTRACTOR'S WORK IS CONSIDERED COMPLETE.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF OFF-SITE ANY TREES, BRUSH, STUMPS, TRASH OR OTHER UNWANTED DEBRIS AT THE OWNER'S DIRECTION, INCLUDING OLD BUILDING FOUNDATIONS AND FLOORS. BURNING OF TRASH, STUMPS OR OTHER DEBRIS SHALL NOT BE PERMITTED.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY CONTAIN TRAFFIC IN ACCORDANCE WITH "MMUTCD".
- ALL EXCAVATIONS SHALL BE SLOPED, SHORED OR BRACED ACCORDING WITH MI-OHSA REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE AN ADEQUATELY CONSTRUCTED AND BRACED SHORE SYSTEM FOR EMPLOYEES WORKING IN AN EXCAVATION THAT MAY EXPOSE EMPLOYEES TO THE DANGER OF MOVING GROUND.
- ALL REFERENCES TO M.D.O.T. SPECIFICATIONS ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MDT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

PAVING NOTES:

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF MARSHALL, CALHOUN COUNTY AND MDOT, WHERE APPLICABLE.
- IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.

3. SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE TOPSOIL IN CUT SECTIONS OR BELOW SUBGRADE IN CUT SECTIONS, WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.

4. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED WITH SAND OR OTHER SIMILAR APPROVED MATERIAL. BACKFILL SHALL BE COMPAKTED TO 95% OF THE MAXIMUM UNIT WEIGHT (PER ASTM D-1557) UNLESS OTHERWISE SPECIFIED.

5. BACKFILL UNDER PAVED AREAS SHALL BE AS SPECIFIED ON DETAILS.

6. ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.

GENERAL UTILITY NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF MARSHALL, CALHOUN COUNTY AND M.D.O.T.

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.

3. ALL TRENCHES UNDER OR WITHIN THREE (3) FEET OF THE FORTY-FIVE (45) DEGREE ZONE OF INFLUENCE LINE OF EXISTING AND/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH SAND COMPACTED TO AT LEAST NINETY-FIVE (95%) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D-1557). ALL OTHER TRENCHES TO BE COMPACTED TO 90% OR BETTER.

4. WHENEVER EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES 4" CENTER TO CENTER, AROUND PERIPHERY OF OPENING TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT.

5. EXACT GRADES AND DEPTHS OF UTILITIES ARE TO BE CHECKED CLOSELY WITH THE FIELD ENGINEER PRIOR TO INSTALLATION.

STORM SEWER NOTES:

1. ALL STORM SEWER SHALL BE INSTALLED ON STANDARD BEDDING OR BETTER.

2. JOINTS FOR ALL STORM SEWER 12" AND LARGER SHALL BE PREMIUM JOINT TONGUE AND GROOVE WITH RUBBER GASKETS, UNLESS SPECIFIED OTHERWISE.

3. ALL STORM SEWER 12" AND LARGER SHALL BE RCP CLASS IV OR HDPE ADS N-12 OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.

4. CULVERTS SHALL BE ALUMINIZED TYPE II CSP (OR HDPE ADS N-12) WITH BANDED JOINTS MEETING MANUFACTURERS SPECS

5. STORM LEADS SHALL BE PVC SCH 40 WITH GLUED JOINTS BEDDED ON SAND OR STONE AGGREGATE.

WATER MAIN NOTES:

1. ALL WATER MAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF 6'0" BELOW FINISH GRADE. WHEN WATER MAINS MUST DIP TO PASS UNDER A STORM SEWER OR SANITARY SEWER, THE SECTIONS WHICH ARE DEEPER THAN NORMAL SHALL BE KEPT TO A MINIMUM LENGTH BY THE USE OF VERTICAL TWENTY TWO AND A HALF (22.5) DEGREE BENDS, PROPERLY ANCHORED. MAINTAIN MIN. 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES.

2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF MARSHALL, CALHOUN COUNTY AND M.D.O.T.

3. ALL TRENCHES UNDER OR WITHIN THREE (3) FEET OF THE FORTY-FIVE (45) DEGREE ZONE OF INFLUENCE LINE OF EXISTING AND/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH SAND COMPACTED TO AT LEAST NINETY-FIVE (95%) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D-1557). ALL OTHER TRENCHES TO BE COMPACTED TO 90% OR BETTER.

4. ALL TEE'S, BENDS, CONNECTIONS, ETC. ARE CONSIDERED INCIDENTAL TO THE JOB.

5. PHYSICAL CONNECTIONS SHALL NOT BE MADE BETWEEN EXISTING AND NEW WATER MAINS UNTIL TESTING IS SATISFACTORILY COMPLETED.

6. MAINTAIN 10' HORIZONTAL CLEARANCE BETWEEN OUTER EDGE OF WATER MAIN AND ANY SANITARY SEWER OR STRUCTURE.

7. ALL WATER MAIN SHALL BE DUCTILE IRON CLASS 52 OR PVC C-900.

8. REFER TO CITY OF MARSHALL STANDARD SPECIFICATIONS AND DETAILS FOR WATER MAIN CONSTRUCTION FOR ADDITIONAL INFORMATION.

SANITARY SEWER NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF MARSHALL, CALHOUN COUNTY AND M.D.O.T.

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.

3. ALL TRENCHES UNDER OR WITHIN THE 45° ZONE OF INFLUENCE LINE OR 5 FEET OF EXISTING AND/OR PROPOSED PAVEMENT SHALL BE BACKFILLED WITH SAND AND COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D-1557.

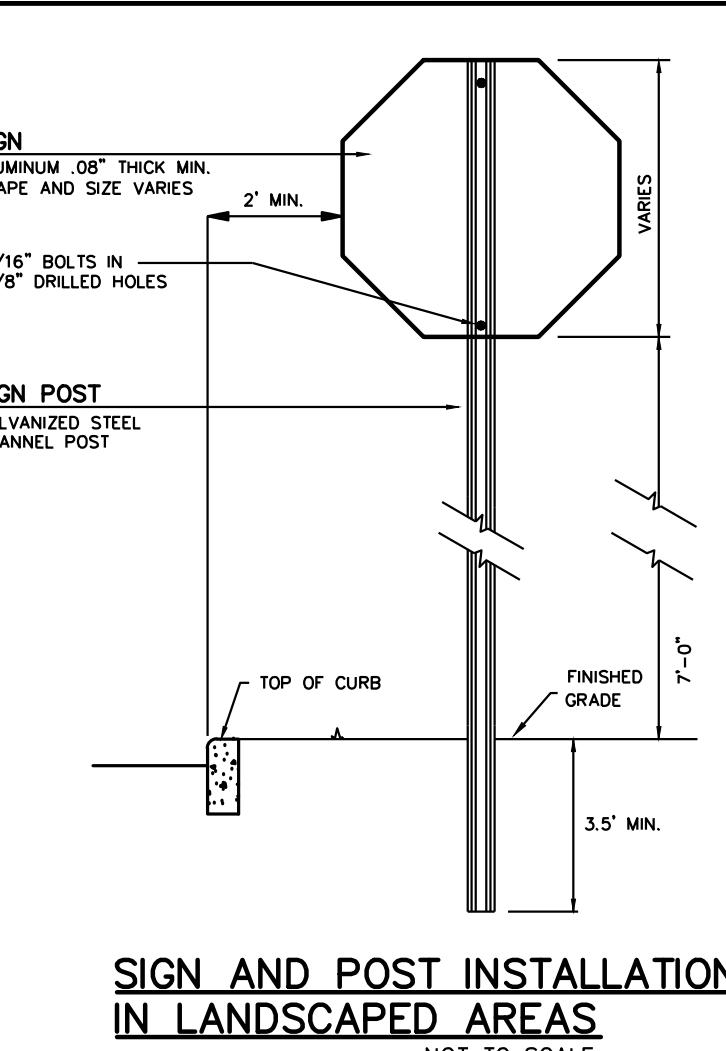
4. ALL SEWERS SHALL BE PLACED ON MIN. 4" SAND OR GRAVEL BEDDING WHICH SHALL EXTEND TO MIN. 12" OVER TOP OF THE PIPE AND SHALL BE COMPAKTED IN MIN. 6" LAYERS.

5. A MINIMUM OF 18" OF CLEARANCE MUST BE MAINTAINED AT ALL CROSSINGS BETWEEN SANITARY, WATER MAIN AND STORM SEWER, UNLESS PROVIDED WITH A CONCRETE CRADLE.

6. NO SANITARY SEWER INSTALLATION OR PORTION THEREOF SHALL HAVE INFILTRATION EXCEEDING 200 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOUR PERIOD. JOINTS FOR P.V.C. SOLID WALL OR TRUSS PIPE SHALL BE ELASTOMETRIC (RUBBER GASKET) MEETING A.S.T.M. D-3212.

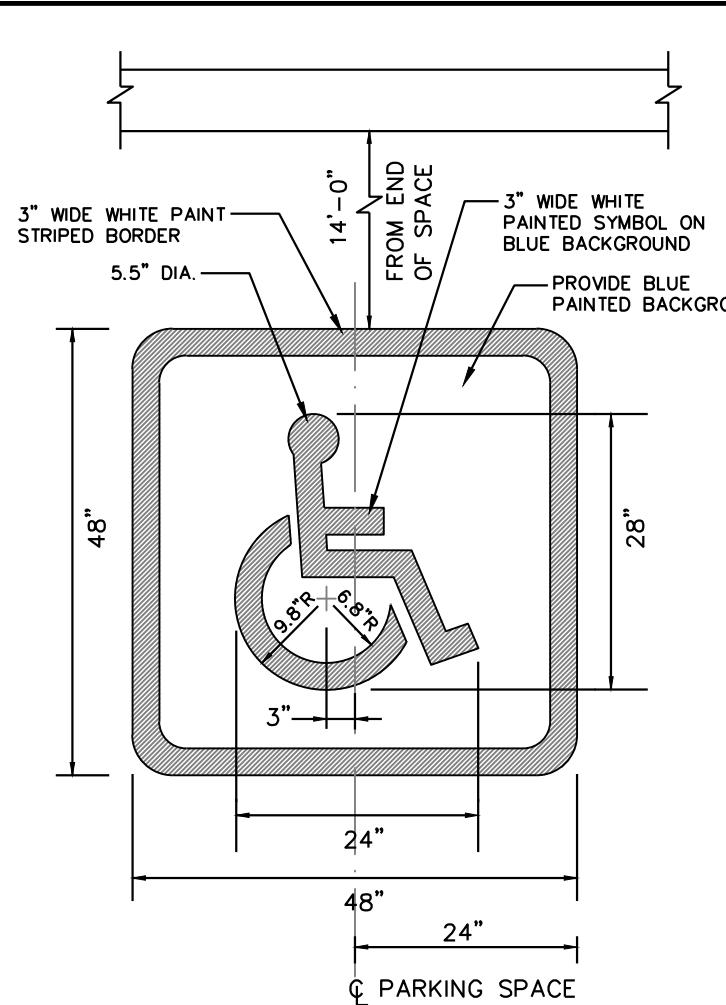
7. SANITARY SEWER MAIN AND LEADS 8" DIAMETER & SMALLER SHALL BE CONSTRUCTED OF P.V.C. SOLID WALL PIPE CONFORMING TO A.S.T.M. D-3034, SDR 35.

8. SEE CITY OF MARSHALL STANDARD SPECIFICATIONS & DETAILS FOR ADDITIONAL INFORMATION.



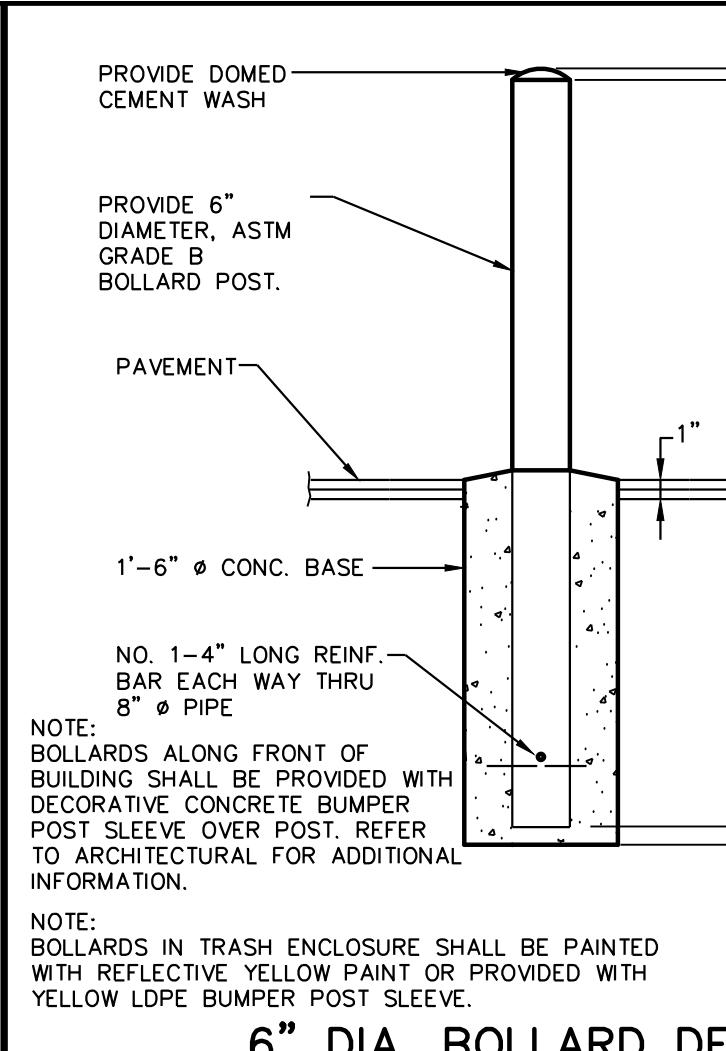
**SIGN AND POST INSTALLATION
IN LANDSCAPED AREAS**

NOT TO SCALE



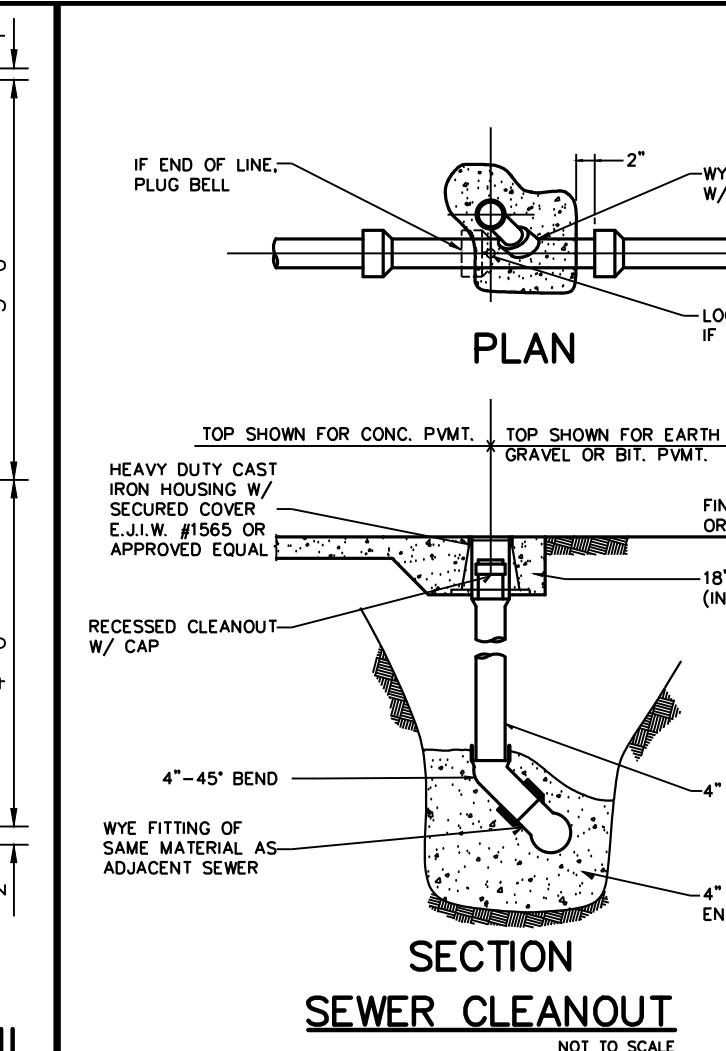
**STANDARD BARRIER FREE SYMBOL
FOR PARKING SPACE**

NOT TO SCALE



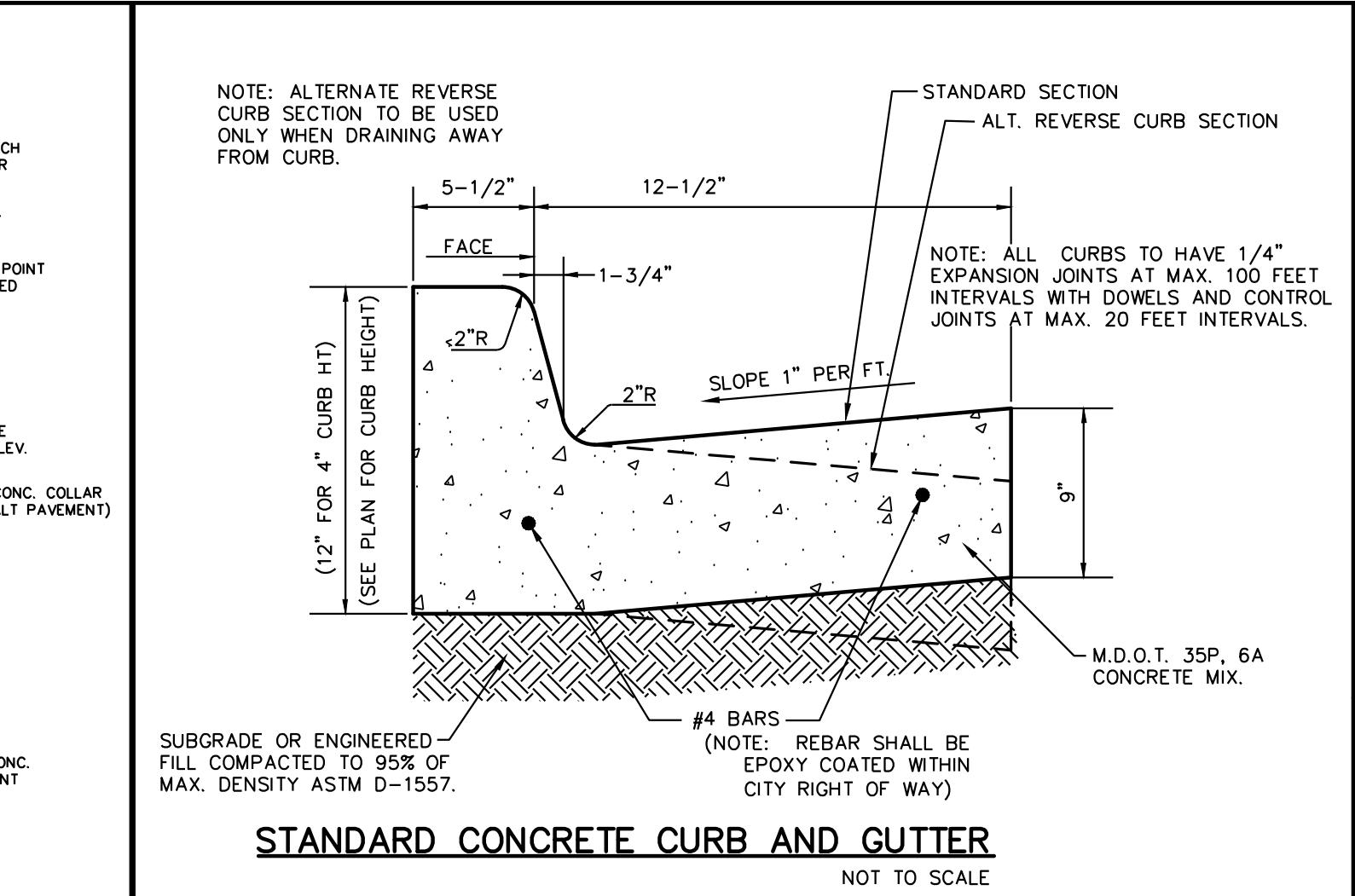
6" DIA. BOLLARD DETAIL

NOT TO SCALE



SEWER CLEANOUT

NOT TO SCALE



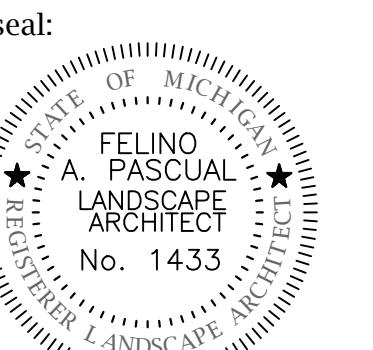
STANDARD CONCRETE CURB AND GUTTER

NOT TO SCALE

REVISIONS	REVISIONS	REVISIONS
TS	TS	TS
RS	RS	RS
RE	RE	RE
ND	ND	ND
DATE	DATE	DATE
2-3-20	2-3-20	2-3-20
1-24-17	1-24-17	1-24-17

REVISED PER CITY COMMENTS
REVISED PER CITY COMMENTS
REVISED PER CITY COMMENTS

REVISIONS
REVISIONS
REVISIONS



client:

DELTA ONE
150 W. 2nd Street
Suite 250
Royal Oak, Michigan
48067

project:

DELTA-ONE
420 W. SPRUCE

project location:
City of Marshall,
Michigan

sheet title:

landscape planting detail

job no./issue/revision date:
LS20.031.02 SPA 2-10-2020drawn by:
JP,checked by:
FPdate:
2-7-2020notice:
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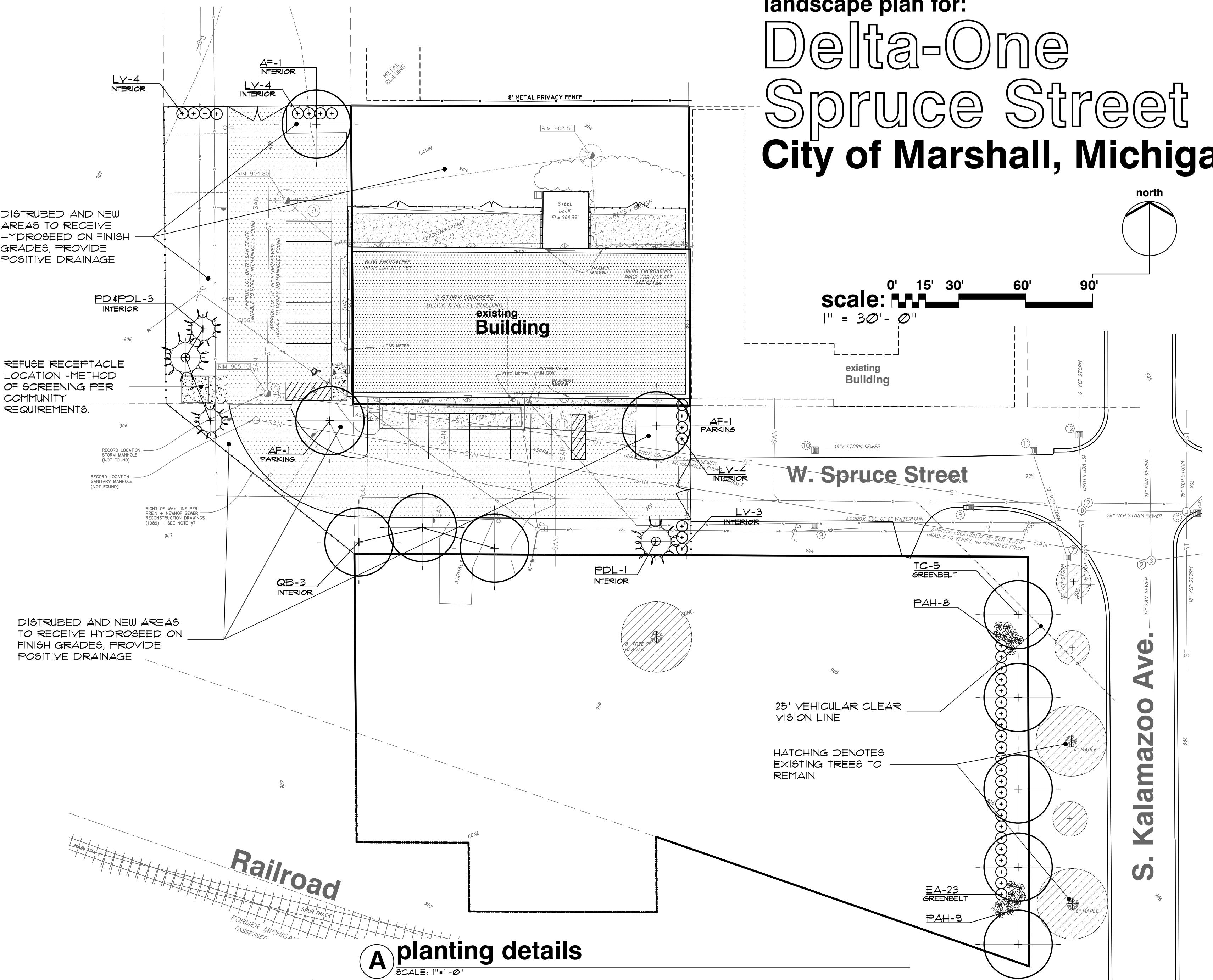
The location and elevations of existing
underground utilities as shown on this
drawing are only approximate; no guarantee
is either expressed or implied as to the
exact location and elevation prior to the start
of construction.

project no:
LS20.031.02

sheet no:

LS-1

landscape plan for: Delta-One Spruce Street City of Marshall, Michigan



general landscape notes:

- LANDSCAPE CONTRACTOR SHALL VISIT THE SITE, INSPECT EXISTING CONDITIONS, REVIEW PROPOSED PLANTINGS AND RELATED WORK, CONTACT THE OWNER AND/OR LANDSCAPE ARCHITECT WITH ANY CONCERN OR DISCREPANCY BETWEEN THE PLAN, PLANT MATERIAL LIST, AND/OR SITE CONDITIONS.
- PRIOR TO BEGINNING OF CONSTRUCTION ON ANY WORK, CONTRACTORS SHALL VERIFY LOCATIONS OF ALL ON-SITE UTILITIES, GAS, ELECTRIC, TELEPHONE, CABLE TO BE LOCATED BY CONTACTING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE ALL RELATED WORK ACTIVITIES WITH OTHER TRADES AND REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER PRIOR TO COMMENCING.
- NUMERICAL VALUE ON THE LANDSCAPE QUANTITIES SPECIFIED ON THE PLAN TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION, VERIFY ANY CONCERN-DISCREPANCY WITH LANDSCAPE ARCHITECT.
- ALL CONSTRUCTION AND PLANT MATERIAL LOCATION TO BE ADJUSTED ON SITE IF NECESSARY.
- ALL SUBSTITUTIONS OR DEVIATIONS FROM THE LANDSCAPE PLAN MUST BE APPROVED BY CITY OF MARSHALL AND LANDSCAPE ARCHITECT.
- ALL LARGE TREES AND EVERGREENS TO BE STAKED, GUTTED AND WRAPPED AS DETAIL SHOWN ON PLAN.

- PLANT BEDS TO BE DRESSED WITH MIN. 4" OF FINELY DOUBLE SHREDDED HARDBARK MULCH.
- DIG SHRUB PITS 1' LARGER THAN SHRUB ROOT BALLS AND TREE PITS 2' LARGER THAN ROOT BALL. BACK FILL WITH ONE PART TOP SOIL AND ONE PART SOIL FROM EXCAVATED PLANTING HOLE.

- NATURAL COLOR FINELY SHREDDED HARDWOOD BARK MULCH REQUIRED FOR ALL PLANTINGS.
- REMOVE ALL TWINE, WIRE AND BURLAP FROM TREE AND SHRUB EARTH BALLS, AND FROM TREE TRUNKS. 4" THICK BARK MULCH FOR TREES IN 4" DIA. CIRCLE WITH 3" PULLED AWAY FROM TRUNK. 4" THICK BARK MULCH FOR PERENNIALS AND 4" THICK BARK MULCH FOR PERENNIALS.

- PLANT MATERIAL QUALITY & INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS.
- PROVIDE HYDROSEED FOR ALL NEW AND DISTURBED LAWN AREAS UNLESS NOTED OTHERWISE.
- ALL PLANTING AREAS TO BE PREPARED WITH APPROPRIATE SOIL MIXTURES AND FERTILIZER BEFORE PLANT INSTALLATION.

- PLANT TREES AND SHRUBS GENERALLY NO CLOSER THAN THE FOLLOWING DISTANCES FROM SIDEWALKS, CURBS AND PARKING STALLS:
 - SHADE TREES 5 FT.
 - ORNAMENTAL AND EVERGREEN TREES (CRAB, PINE, SPRUCE, ETC.) 10 FT.
 - SHRUBS THAT ARE LESS THAN 1 FOOT TALL AND WIDE AT MATURITY 2 FT.

- NO TREES OR EVERGREENS TO BE INSTALLED OVER ANY PROPOSED OR EXISTING UTILITY LINES AS SHOWN ON THE OVERALL LANDSCAPE PLAN. SEE ENGINEERING PLANS FOR LOCATION AND DETAILS.

- ALL NEW PARKING ISLANDS AND LANDSCAPE BEDS ADJACENT AND NEXT TO BUILDING SHALL BE EXCAVATED OF ALL BUILDING MATERIALS AND POOR SOILS A MIN. OF 16"-18" DEPTH. BACK FILL WITH GOOD, MEDIUM TEXTURED PLANTING SOILS, ADD A MIN. 4" OF TOPSOIL OVERLIFT TO FINISH GRADE. PROVIDE POSITIVE DRAINAGE.

- WATERING OF ALL PLANTS AND TREES TO BE PROVIDED IMMEDIATELY AND MULCHING WITHIN 24 HOURS AFTER INSTALLATION.

- ALL TREE PITS TO BE TESTED FOR PROPER DRAINAGE PRIOR TO TREE PLANTING. PROVIDE APPROPRIATE DRAINAGE SYSTEM AS REQUIRED IF THE TREE PIT DOES NOT DRAIN SUFFICIENTLY.

- WATERING OF ALL PLANTS AND TREES TO BE PROVIDED IMMEDIATELY AND MULCHING WITHIN 24 HOURS AFTER INSTALLATION.

PROVIDE "TREEGATOR" SLOW RELEASE WATERING BAGS OR EQUAL TO ALL NEW TREES WHERE UNDERGROUND IRRIGATION SYSTEM IS NOT PROVIDED. CONTRACTOR TO SCHEDULE REFILL WATER BAG AS REQUIRED PER MANUFACTURER SPECIFICATION.

CONTRACTOR SHALL SEAL ALL BARE SPOTS IN EXISTING TURF ON SITE, INCLUDING EXISTING RIGHTS OF WAY AND ETC. TO PROVIDE A CONTINUOUS DENSE LAWN.

20. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE PLANT MATERIALS AND IRRIGATION INSTALLATION FOR A PERIOD OF TWO YEARS BEGINNING AFTER THE COMPLETION OF LANDSCAPE INSTALLATION DATE. AT THE END OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL REPLACE PLANTING AND AT THE END OF THE GUARANTEE PERIOD, ANY DEAD OR UNACCEPTABLE PLANTS AS DETERMINED BY THE TOWNSHIP OR LANDSCAPE ARCHITECT, WITHOUT COST TO THE OWNER.

landscape maintenance notes:

LANDSCAPE MAINTENANCE PROCEDURES AND FREQUENCIES TO BE FOLLOWED SHALL BE SPECIFIED ON THE LANDSCAPE PLAN, ALONG WITH THE MANNER IN WHICH THE EFFECTIVENESS, HEALTH AND INTENDED FUNCTIONS OF THE VARIOUS LANDSCAPE AREAS ON THE SITE WILL BE ENURED.

1. LANDSCAPING SHALL BE KEPT IN A NEAT, ORDERLY AND HEALTHY GROWING CONDITION, FREE FROM DEBRIS AND REFUSE.

2. PRUNING SHALL BE MINIMAL AT THE TIME OF INSTALLATION, ONLY TO REMOVE DEAD OR DISEASED BRANCHES. SUBSEQUENT PRUNING SHALL ASSURE PROPER MATURATION OF PLANTS TO ACHIEVE THEIR APPROVED PURPOSE.

3. ALL DEAD OR DISEASED PLANT MATERIAL SHALL BE REMOVED AND REPLACED WITHIN SIX (6) MONTHS AFTER IT DIES OR IN THE NEXT PLANTING SEASON, WHICHEVER OCCURS FIRST. THE PLANTING SEASON FOR DECIDUOUS PLANTS SHALL BE BETWEEN MARCH 15 AND NOVEMBER 15 OR UNTIL THE PREPARED SOIL BECOMES FROZEN. THE PLANTING SEASON FOR EVERGREEN PLANTS SHALL BE BETWEEN MARCH 1 AND JUNE 1. PLANT MATERIAL INSTALLED TO REPLACE DEAD OR DISEASED MATERIAL SHALL BE AS CLOSE AS PRACTICAL TO THE SIZE OF THE MATERIAL IT IS INTENDED TO REPLACE.

landscape requirements:

greenbelt landscape

TOTAL LF. OF KALAMAZOO AVE FRONTOAGE	REQUIRED	PROVIDED
100'	5	5

ONE (1) DECIDUOUS OR EVERGREEN TREE PER 40 LF.
(100 LF / 40 LF = 4.5 X 1 = 4.5 TREES)

FOUR (4) SHRUBS PER 40 LF.
(100 LF / 40 LF = 4.5 X 4 = 18 SHRUBS)

parking

TOTAL NO. OF PARKING SPACES PROVIDED	REQUIRED	PROVIDED
20	2	2

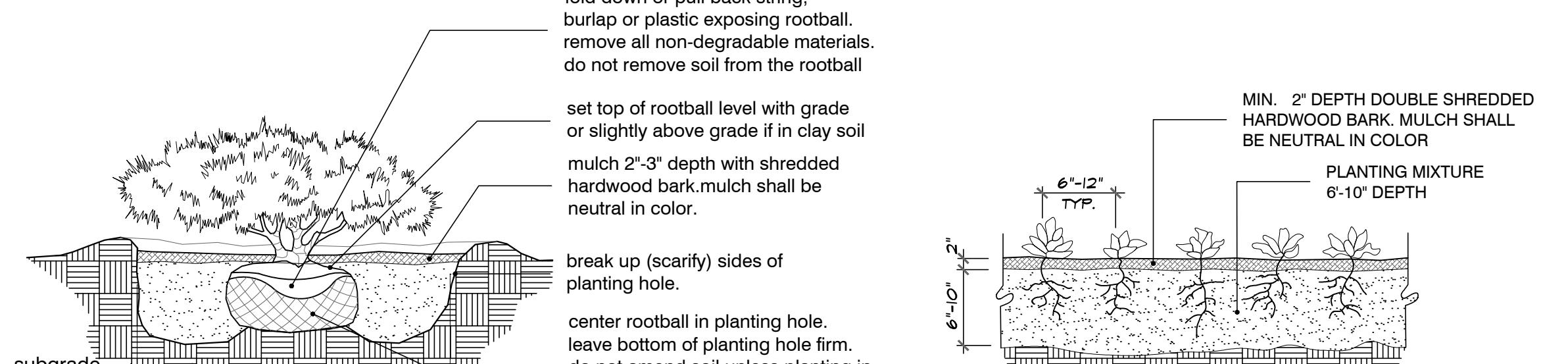
ONE (1) DECIDUOUS TREE PER 10-SPACES
(20 SPACES / 10 SPACES = 2 TREES)

interior landscape

TOTAL SQ.FT. OF PROPERTY	REQUIRED	PROVIDED
63,919 ±		
INTERIOR LANDSCAPE (5% OF PROPERTY) (63,919 X 5% = 3,195.95 SQFT.)		
ONE (1) DECIDUOUS/ORNAMENTAL/EVERGREEN TREE PER 400 SQFT. (3,196 SQFT. / 400 SQFT. = 7.99 TREES)	8	8
ONE (1) SHRUB PER 250 SQFT. (3,196 SQFT. / 250 SQFT. = 12.78 SHRUBS)	13	15

plant material list

key	quant. LS-1	botanical name	common name	size	comments
-		LARGE AND SMALL DECIDUOUS TREES			
TC	5	TILIA CORDATA 'GREENFIRE'	GREENFIRE LINDEN	2 1/2" BB	GREENBELT
- AF	3	ACER X FREEMANII 'JEFFERSRED'	AUTUMN BLAZE RED MAPLE	2 1/2" BB	INTERIOR/GREENBELT
QB	3	QUERCUS BI-COLOR	WHITE SWAMP OAK	2 1/2" BB	INTERIOR
-		SHRUBS			
EA	23	EUONYMUS ALATUS COMPACTA	DAWNY WINGED BURNING BUSH	#3 CONT	GREENBELT
LY	15	LIGustrum X. VICARYI	GOLDEN VICARY PRIVET	#3 CONT	INTERIOR/GREENBELT
- PAH	17	PENNSETUM ALOPECUROIDES 'HAMLEN'	#3 CONT.		
-		LARGE AND SMALL EVERGREENS			
FD	2	PIFACE GLAUCA 'DENSA'	BLACKHILLS SPRUCE	8' BB	INTERIOR
PDL	1	PIFACE GLAUCA 'DENSA'	BLACKHILLS SPRUCE	10' BB O	INTERIOR



shrub planting detail
no scale