

Site Plan Review

Reviewed for compliance with City Ordinance, Building and Fire Codes
Conditions and mark-ups noted throughout plan set must be addressed prior to final approval

- SP
- LIP
- TRP
- BP

Department	Reviewer	Approved
Assessing	Assessing	Yes
Building	Mark Artinian 248-841-2446 ArtinianM@RochesterHills.org	Yes
Engineering - Utilities	Jason Boughton 248-841-2490 BoughtonJ@RochesterHills.org	Yes
Engineering Legal	Jenny McGuckin 248-841-2494 mcguckinj@rochesterhills.org	YES Date: 04/22/2024
Fire	Capt. Ann Echols 248-841-2701 EcholsA@RochesterHills.org	No
Natural Resources	Matt Einheuser 248-841-2551 EinheuserM@RochesterHills.org	No
Planning	Chris McLeod 248-841-2572 mcleodc@RochesterHills.org	No
Traffic	Keith Depp 248-841-2503 DeppK@RochesterHills.org	Yes

Condition on the Pathway sightline notes and details are addressed.

Civil Engineer

Next Steps: Submit revised site plans addressing reviewers comments.



46777 Woodward Ave
Pontiac, MI 48342-5032

Contact: Patrick Williams, P.E.
Tel. (248) 332-7931
Fax. (248) 332-8257

Architect

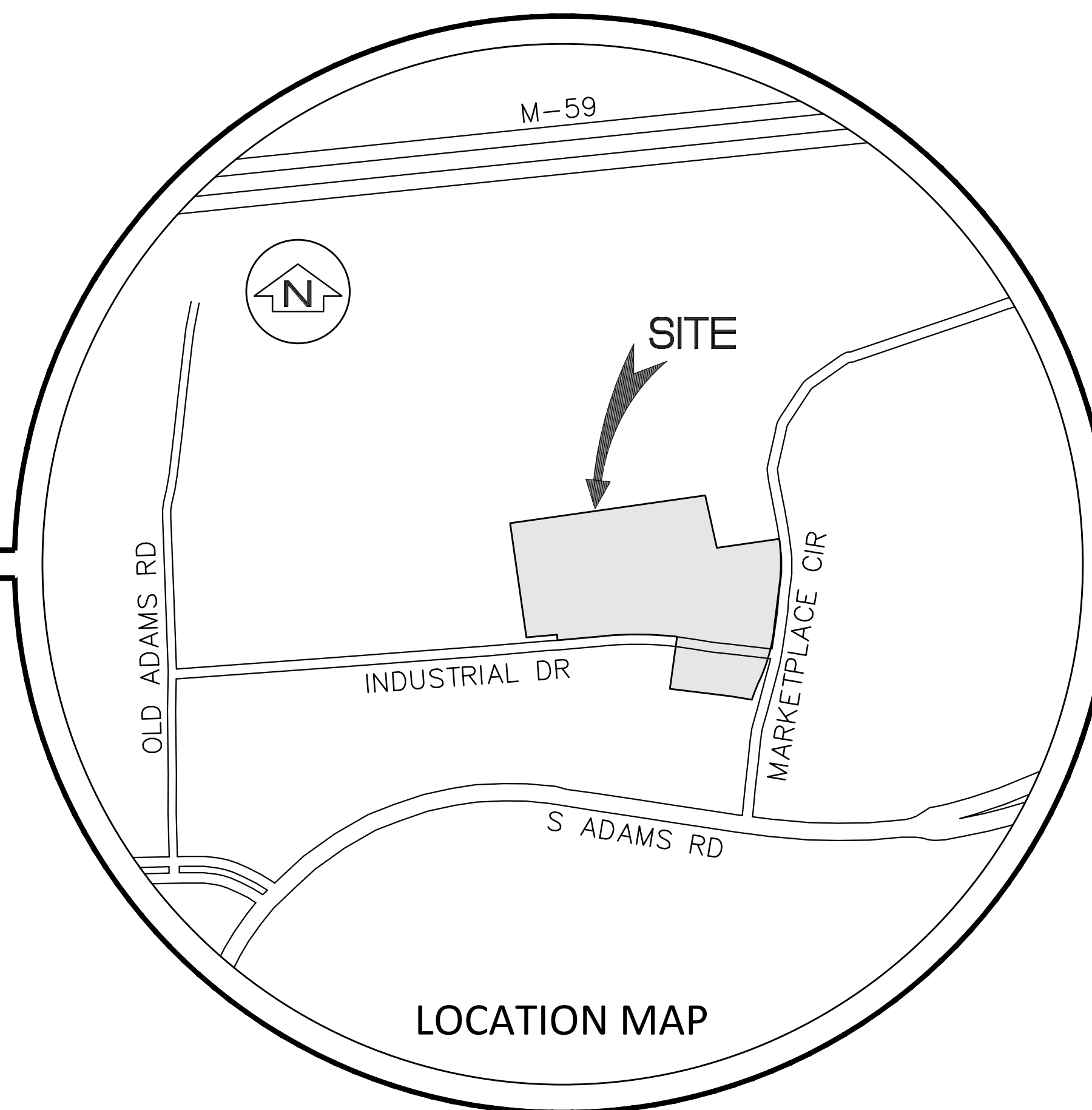
MICHAEL A. BOGGIO ASSOCIATES
30150 Telegraph Rd.
Suite 150
Bingham Farms, MI 48025

Phone: (248) 258-5155

NF Responses. Placed adjacent to comments throughout

City of Rochester Hills, Oakland County, Michigan SITE PLAN DOCUMENTS

PART OF THE SOUTHWEST 1/4
OF SECTION 30,
TOWN 3 NORTH, RANGE 11 EAST



LOCATION MAP

Project Name

Marketplace of Rochester Hills 3900 Industrial Dr.

LEGAL DESCRIPTION

LAND SITUATED IN THE CITY OF ROCHESTER HILLS IN THE COUNTY OF OAKLAND IN THE STATE OF MI

THE LAND IS DESCRIBED AS FOLLOWS: A PARCEL OF LAND LOCATED IN THE SOUTHWEST 1/4 OF SECTION 30, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED AS:

COMMENCING AT THE WEST 1/4 CORNER (AS REMONUMENTED) OF SAID SECTION 30 AND PROCEEDING ALONG THE EAST AND WEST 1/4 LINE NORTH 85 DEGREES 49 MINUTES 02 SECONDS EAST 823.73 FEET; THENCE SOUTH 07 DEGREES 21 MINUTES 28 SECONDS EAST 66.85 FEET TO THE POINT OF BEGINNING; THENCE NORTH 82 DEGREES 38 MINUTES 29 SECONDS EAST 531.04 FEET; THENCE SOUTH 11 DEGREES 53 MINUTES 53 SECONDS EAST 144.77 FEET; THENCE NORTH 82 DEGREES 38 MINUTES 32 SECONDS EAST 169.46 FEET; THENCE ALONG THE WEST RIGHT-OF-WAY LINE OF MARKETPLACE CIRCLE (60 FEET WIDE) THE FOLLOWING FOUR (4) COURSES: 1) 122.60 FEET ALONG THE ARC OF A CURVE TO RIGHT, RADIUS 470.00 FEET, CENTRAL ANGLE 14 DEGREES 56 MINUTES 46 SECONDS, AND A CHORD THAT BEARS SOUTH 00 DEGREE 19 MINUTES 32 SECONDS WEST 122.26 FEET, 2) SOUTH 07 DEGREES 47 MINUTES 53 SECONDS WEST 121.81 FEET, 3) 143.15 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, RADIUS 470.00 FEET, CENTRAL ANGLE 17 DEGREES 27 MINUTES 04 SECONDS, AND A CHORD THAT BEARS SOUTH 16 DEGREES 31 MINUTES 26 SECONDS WEST 142.60 FEET AND 4) 57.02 FEET ALONG THE ARC OF A CURVE TO THE LEFT, RADIUS 530.00 FEET, CENTRAL ANGLE 06 DEGREES 09 MINUTES 50 SECONDS, AND A CHORD THAT BEARS SOUTH 22 DEGREES 10 MINUTES 03 SECONDS WEST 56.99 FEET; THENCE NORTH 79 DEGREES 54 MINUTES 04 SECONDS WEST 58.24 FEET; THENCE NORTH 82 DEGREES 12 MINUTES 07 SECONDS WEST 164.66 FEET; THENCE NORTH 08 DEGREES 30 MINUTES 03 SECONDS EAST 141.36 FEET; THENCE 194.39 FEET ALONG THE ARC OF A CURVE TO THE LEFT, RADIUS 970.00 FEET, CENTRAL ANGLE 11 DEGREES 28 MINUTES 55 SECONDS AND A CHORD THAT BEARS NORTH 88 DEGREES 36 MINUTES 41 SECONDS WEST 194.06 FEET; THENCE SOUTH 85 DEGREES 38 MINUTES 52 SECONDS WEST 128.81 FEET; THENCE NORTH 02 DEGREES 02 MINUTES 36 SECONDS WEST 15.01 FEET; THENCE SOUTH 85 DEGREES 38 MINUTES 52 SECONDS WEST 83.16 FEET ALONG THE CENTERLINE OF A 60 FOOT WIDE INGRESS AND EGRESS EASEMENT FOR A PRIVATE ROAD KNOWN AS INDUSTRIAL DRIVE; THENCE NORTH 07 DEGREES 21 MINUTES 28 SECONDS WEST 310.95 FEET TO THE POINT OF BEGINNING.

CONTAINING 262,812 SQUARE FEET OR 6.033 ACRES.

VACANT
TAX ID: 15-30-301-042
TAX ID: NEW PARCEL FOR 2020: 15-30-301-043

SHEET INDEX

- SP0 Cover Sheet
- SP1 Boundary - Topographic - Tree Survey
- SP2 Stringer Dimension Plan
- SP3 Fire Truck Turning
- SP4 Engineering Site Plan
- SP5 Site Notes and Details
- SP6 Storm Water Management Plan
- SP7 Storm Sewer Calculations

- L1 Tree Preservation Plan
- L2 Landscape Plan
- L3 Landscape Notes and Details

Photometric Plan

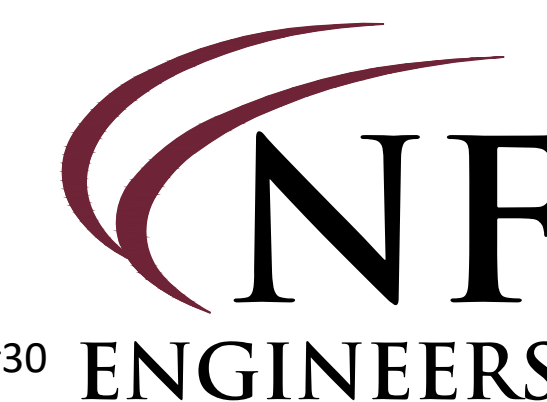
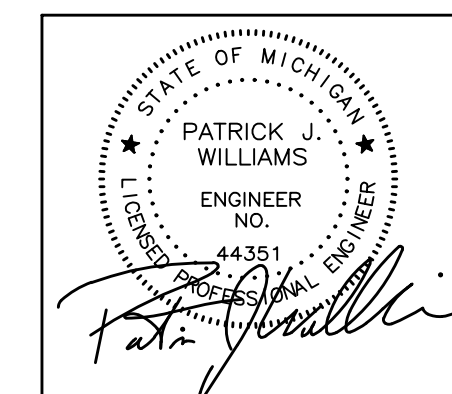
- A-1.1 Building 'A' Floor Plan - Athletic Facility
- A-1.2 Building 'A' Elevations - Athletic Facility
- A-2.1 Building 'B' Floor Plan - Light Industrial/Office
- A-2.2 Building 'B' Elevations - Light Industrial/Office
- A-3.1 Building 'C' Floor Plan - Restaurant/Drive-Thru
- A-3.2 Building 'C' Elevations - Restaurant/Drive-Thru
- A-4.1 Building 'D' Floor Plan - Retail
- A-4.2 Building 'D' Elevations - Retail

REVISIONS:
02-27-2024 ISSUED FOR SP REVIEW
04-08-2024 REVISED PER CITY

Understood. Will be completed at time of CD submittal.



City File #22-042 Section #30
N & F JOB #L762-01

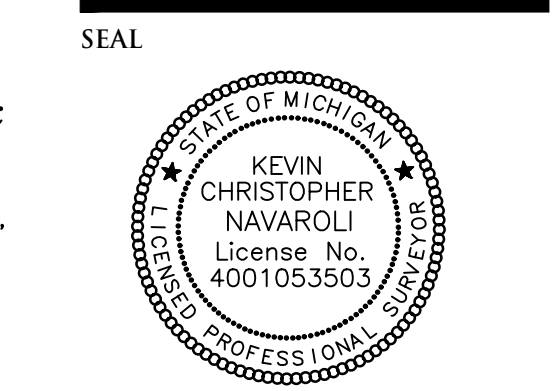


CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NFE-ENGR.COM

The applicant needs to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans to proceed with the construction plan review process.

NOT TO BE USED AS
CONSTRUCTION
DRAWINGS



PROJECT
Marketplace of Rochester Hills
3900 Industrial Drive
Rochester Hills, MI 48309

CLIENT
Grenadier Adams MP, LLC
Contact: Josh Grenadier
Ph-248-752-1748

PROJECT LOCATION
Part of the SW 1/4 of
Section 30, T.3N., R.11E.,
City of Rochester Hills,
Oakland County, MI

SHEET
Boundary - Topographic -
Tree Survey



DATE ISSUED/REVISED
02-27-2024 ISSUED FOR SP REVIEW
04-08-2024 REVISED PER CITY

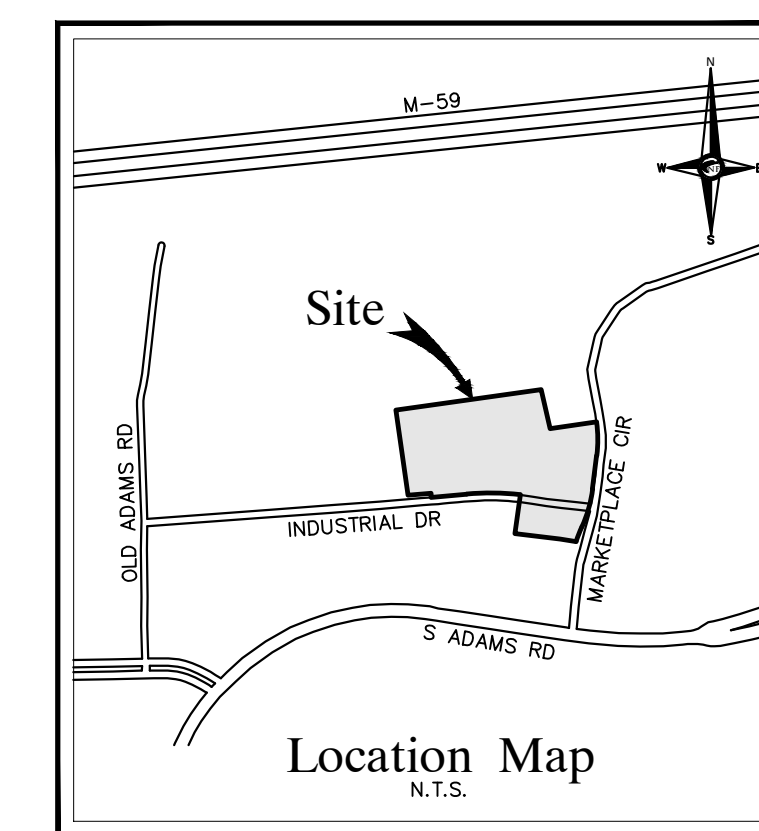
DRAWN BY:
D. McConkey

APPROVED BY:
K. Navaroli

DATE:
September 29, 2022

SCALE: 1" = 40'
40 20 0 20 40 60

City File #22-042
Section #30
NFE JOB NO. SHEET NO.
L762-01 SP1



LEGAL DESCRIPTION
LAND SITUATED IN THE CITY OF ROCHESTER HILLS IN THE COUNTY OF OAKLAND IN THE STATE OF MI:
THE LAND IS DESCRIBED AS FOLLOWS: A PARCEL OF LAND LOCATED IN THE SOUTHWEST 1/4 OF SECTION 30, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED AS:
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CONTAINING 262,812 SQUARE FEET OR 6.033 ACRES.

VACANT
TAX ID: 15-30-301-042
TAX ID: NEW PARCEL FOR 2020: 15-30-301-043

BASIS OF BEARING
THE BASIS OF BEARING FOR THIS SURVEY WAS ESTABLISHED BY THE RECORD DESCRIPTION AS SHOWN IN THE TITLE COMMITMENT REFERENCED HEREON.

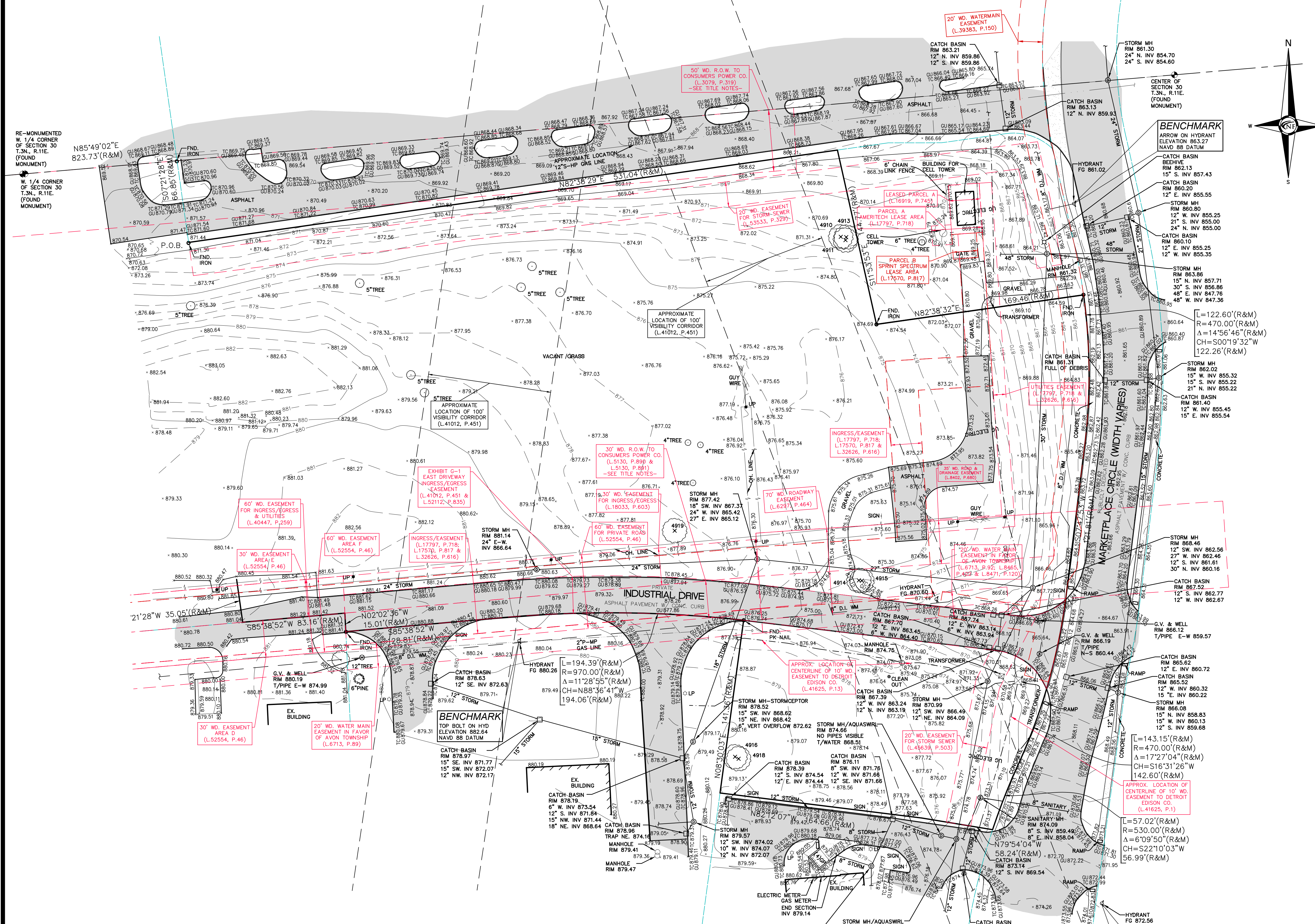
FLOOD HAZARD NOTE
THE PROPERTY DESCRIBED ON THIS SURVEY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY; THE PROPERTY LIES WITHIN ZONE X OF THE CURRENT AVAILABLE FLOOD INSURANCE RATE MAP IDENTIFIED AS MAP NO. 26125C0389F WITH AN EFFECTIVE DATE OF 09-29-2006.

COVID-19 PANDEMIC CONDITION
DUE TO THE UNPRECEDENTED COVID-19 PANDEMIC CONDITION AND RESTRICTIONS THE STANDARD DATA WHICH IS OBTAINED FROM MISS DIG / CALL 811 HAS BEEN RESTRICTED TO CRITICAL OR INCOMPLETE INFRASTRUCTURE ONLY. NFE WILL MAKE EVERY EFFORT TO OBTAIN CURRENT REFERENCE DATA FROM THE GOVERNING AGENCIES; HOWEVER, THIS DATA MAY BE PARTIAL OR INCOMPLETE. NFE WILL ISSUE THIS SURVEY WITH THE BEST AVAILABLE INFORMATION FROM OUR GUY FIELD SURVEY AND OTHER AVAILABLE REFERENCE DATA. NFE WILL NOT BE RESPONSIBLE FOR INCOMPLETE OR PARTIAL DATA PROVIDED BY THIRD PARTY FACILITY OWNERS.

ALL SURVEYS BEING UTILIZED FOR DESIGN PURPOSES BY OTHERS; IT WILL BE THE CLIENT'S OBLIGATION TO UPDATE THE UTILITY INFORMATION AS IT BECOMES AVAILABLE. NFE IS NOT RESPONSIBLE FOR BURIED UTILITIES FOR WHICH PLANS WERE NOT FURNISHED OR CANNOT BE OBSERVED IN THE FIELD.

MISS DIG / UTILITY DISCLAIMER NOTE
A MISS DIG TICKET NUMBER A13210129, PURSUANT TO MICHIGAN PUBLIC ACT 174 WAS ENTERED FOR THE SURVEYED PROPERTY, DUE TO THE EXTENDED REPORTING PERIOD FOR UNDERGROUND FACILITY OWNERS TO PROVIDE THEIR RECORDS, THE SURVEY MAY NOT REFLECT ALL THE UTILITIES AT THE TIME THE SURVEY WAS ISSUED ON 12-17-2021. THE SURVEY ONLY REFLECTS THOSE UTILITIES WHICH COULD BE OBSERVED BY THE SURVEYOR IN THE FIELD OR AS DETECTED BY THE UTILITY COMPANY RECORDS FURNISH PRIOR TO THE DATE THIS SURVEY WAS ISSUED. THE CLIENT AND/OR THEIR AUTHORIZED AGENT SHALL VERIFY WITH THE FACILITY OWNERS AND/OR THEIR AUTHORIZED AGENTS, THE COMPLETENESS AND EXACTNESS OF THE UTILITIES LOCATION.

TOPOGRAPHIC SURVEY NOTES
ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.
UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.
THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.



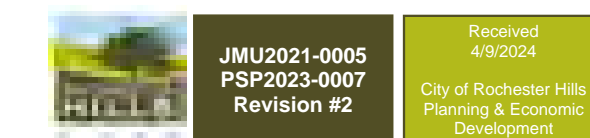
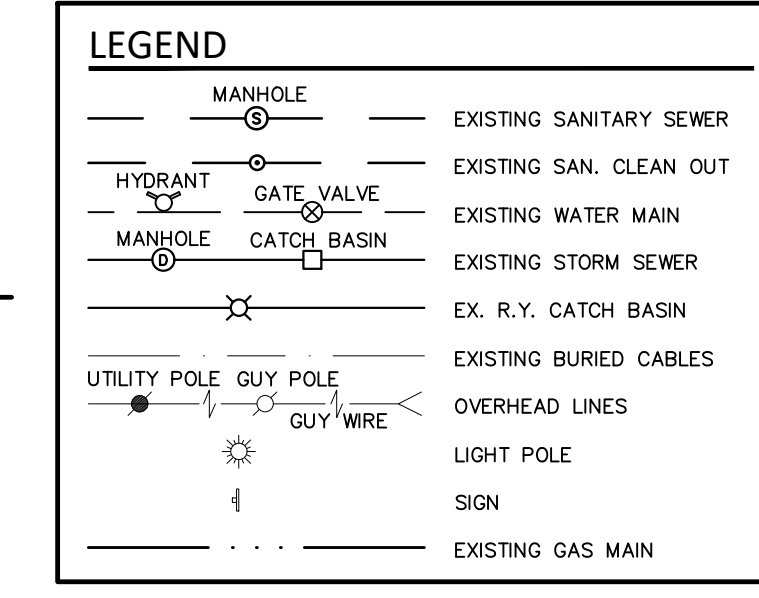
Tag	Scientific Name	Common Name	Diameter at Breast Height (DBH)			Condition
			DBH1	DBH2	DBH3	
4910	Populus deltoides	Cottonwood	6.3			Fair
4911	Populus deltoides	Cottonwood	6.4			Fair
4912	Populus deltoides	Cottonwood	7.0			Fair
4913	Populus deltoides	Cottonwood	8.1			Fair
4914	Populus deltoides	Cottonwood	9.0	7.8		Fair
4915	Populus deltoides	Cottonwood	6.6			Fair
4916	Populus deltoides	Cottonwood	9.3			Fair
4917	Populus deltoides	Cottonwood	8.4			Fair
4918	Populus deltoides	Cottonwood	6.2			Fair
4919	Robinia pseudoacacia	Black locust	6.0	5.6		Fair

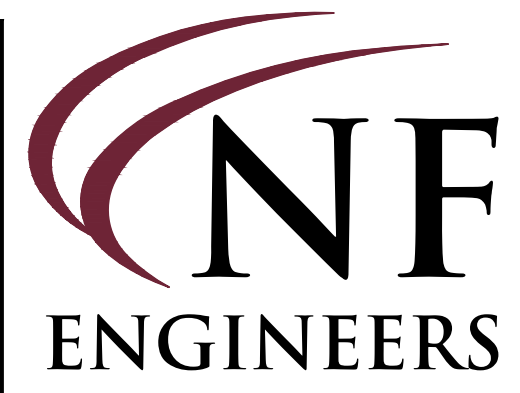
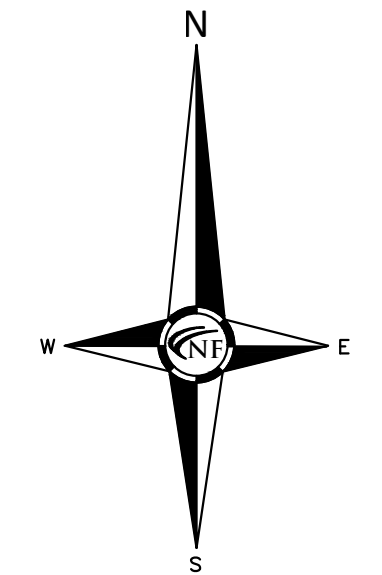
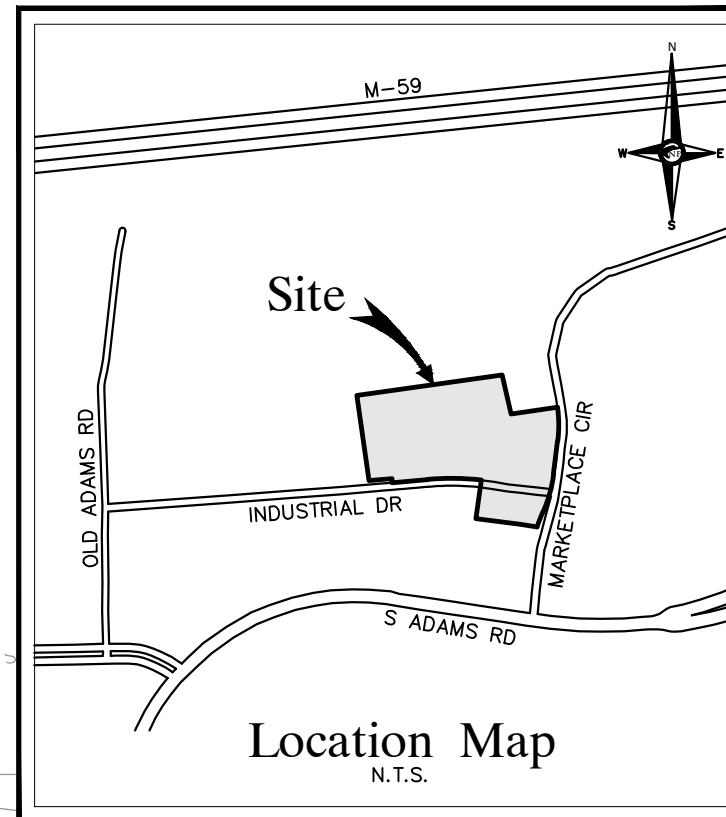
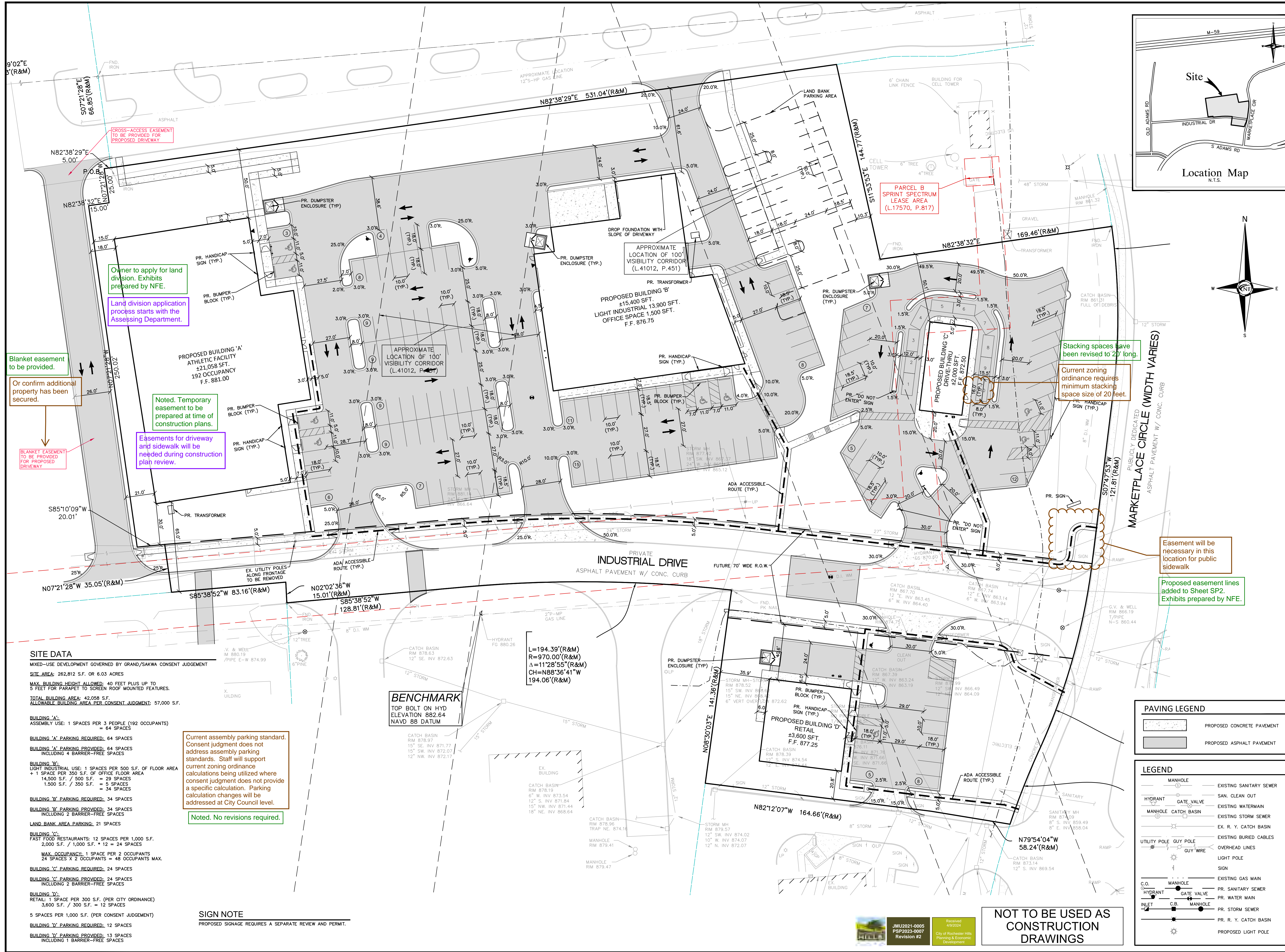
* no specimen trees as defined by Rochester Hills Ordinance Article III; Division 2; Sect. 126-397
Barr Engineering Co.
Project No. 22631166.00
November 30, 2021

CERTIFICATE OF SURVEY

WE HEREBY CERTIFY THAT WE HAVE SURVEYED THE PROPERTY HEREIN DESCRIBED.

KEVIN NAVAROLI, PLS
NO: 53503
DATE: 12-17-2021

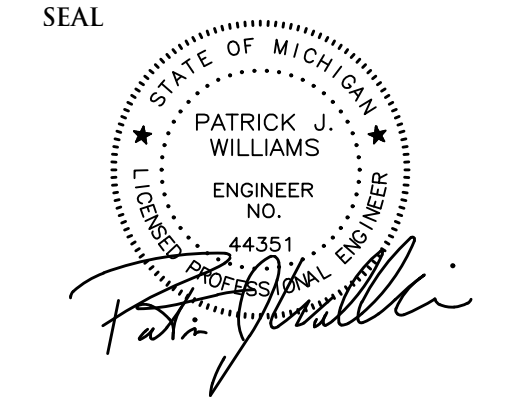




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WWW.NOWAKFRAUS.COM

**NOT TO BE USED AS
CONSTRUCTION
DRAWINGS**



PROJECT
Marketplace of Rochester Hills
3900 Industrial Drive
Rochester Hills, MI 48309

CLIENT
Grenadier Adams MP, LLC
Contact: Josh Grenadier
Ph-248-752-1748

PROJECT LOCATION
Part of the SW 1/4 of
Section 30, T.3N., R.11E.,
City of Rochester Hills,
Oakland County, MI

SHEET
Stringer Dimension Plan



DATE	ISSUED/REVIEWED
02-27-2024	ISSUED FOR SP REVIEW
04-08-2024	REVISED PER CITY

DRAWN BY:
J. Lawrey
DESIGNED BY:
A. Eizember
APPROVED BY:
P. Williams
DATE:
September 29, 2022

SCALE: 1" = 30'
30 15 0 15 30 45

City File #22-042
Section #30
NFE JOB NO. SHEET NO.
L762-01 SP2

SITE DATA
MIXED-USE DEVELOPMENT GOVERNED BY GRAND/SAKWA CONSENT JUDGEMENT
SITE AREA: 262,812 S.F. OR 6.03 ACRES
MAX. BUILDING HEIGHT ALLOWED: 40 FEET PLUS UP TO 5 FEET FOR PARAPET TO SCREEN ROOF MOUNTED FEATURES.
TOTAL BUILDING AREA: 42,058 S.F.
ALLOWABLE BUILDING AREA PER CONSENT JUDGEMENT: 57,000 S.F.

BUILDING 'A':
ASSEMBLY USE: 1 SPACES PER 3 PEOPLE (192 OCCUPANTS) = 64 SPACES
BUILDING 'A' PARKING REQUIRED: 64 SPACES
BUILDING 'A' PARKING PROVIDED: 64 SPACES INCLUDING 4 BARRIER-FREE SPACES
BUILDING 'B':
LIGHT INDUSTRIAL USE: 1 SPACES PER 500 S.F. OF FLOOR AREA + 1 SPACE PER 350 S.F. OF OFFICE FLOOR AREA
14,500 S.F. / 500 S.F. = 29 SPACES
1,500 S.F. / 350 S.F. = 5 SPACES = 34 SPACES
BUILDING 'B' PARKING REQUIRED: 34 SPACES
BUILDING 'B' PARKING PROVIDED: 34 SPACES INCLUDING 2 BARRIER-FREE SPACES
LAND BANK AREA PARKING: 21 SPACES
BUILDING 'C':
FAST FOOD RESTAURANTS: 12 SPACES PER 1,000 S.F. 2,000 S.F. / 1,000 S.F. * 12 = 24 SPACES
MAX. OCCUPANCY: 1 SPACE PER 2 OCCUPANTS
24 SPACES X 2 OCCUPANTS = 48 OCCUPANTS MAX.
BUILDING 'C' PARKING REQUIRED: 24 SPACES
BUILDING 'C' PARKING PROVIDED: 24 SPACES INCLUDING 2 BARRIER-FREE SPACES
BUILDING 'D':
RETAIL: 1 SPACE PER 300 S.F. (PER CITY ORDINANCE) 3,600 S.F. / 300 S.F. = 12 SPACES
5 SPACES PER 1,000 S.F. (PER CONSENT JUDGEMENT)
BUILDING 'D' PARKING REQUIRED: 12 SPACES
BUILDING 'D' PARKING PROVIDED: 13 SPACES INCLUDING 1 BARRIER-FREE SPACES

Current assembly parking standard.
Consent judgment does not address assembly parking standards. Staff will support current zoning ordinance calculations being utilized where consent judgment does not provide a specific calculation. Parking calculation changes will be addressed at City Council level.

Noted. No revisions required.

SIGN NOTE
PROPOSED SIGNAGE REQUIRES A SEPARATE REVIEW AND PERMIT.

BENCHMARK
TOP BOLT ON HYD ELEVATION 882.64
NAVD 88 DATUM

L=194.39'(R&M)
R=970.00'(R&M)
A=11°28'55"(R&M)
CH=N88°36'41"W
194.06'(R&M)

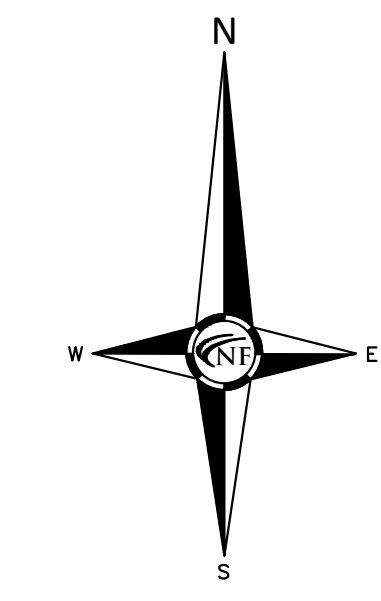
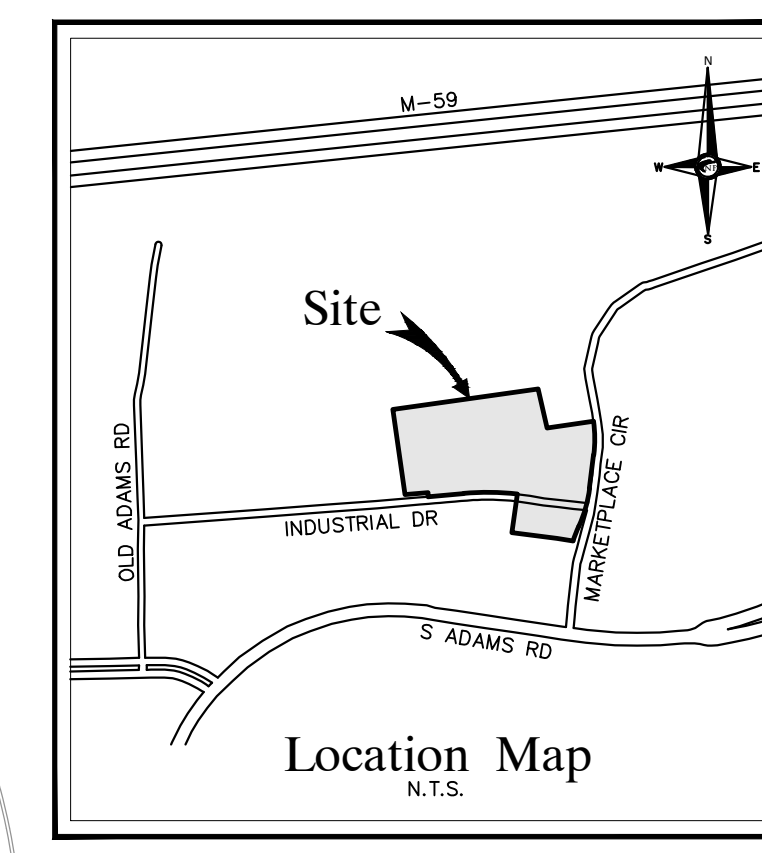
**NOT TO BE USED AS
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DRAWINGS**

PAVING LEGEND

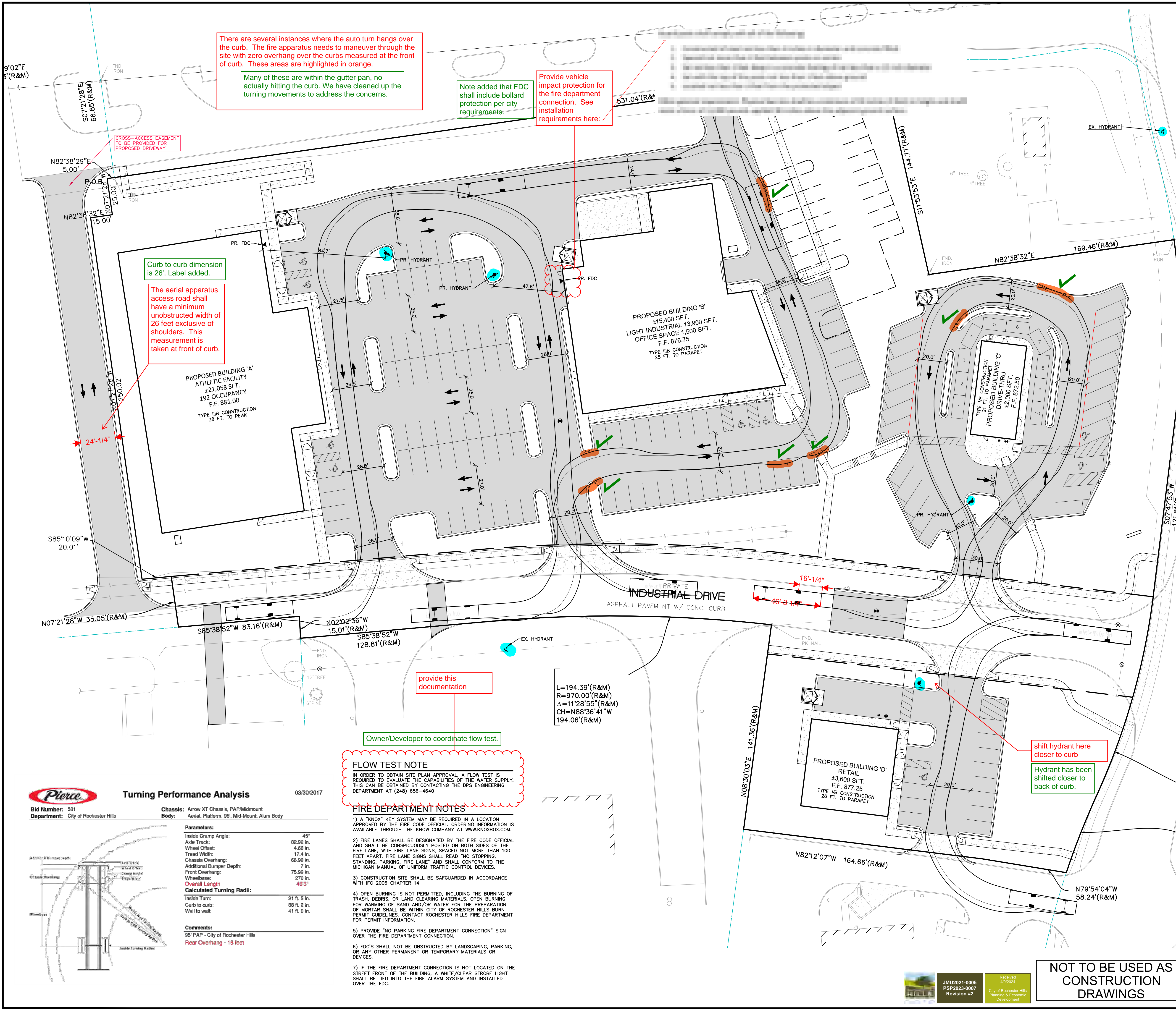
	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT PAVEMENT

LEGEND

	MANHOLE		EXISTING SANITARY SEWER
	HYDRANT		SAN. CLEAN OUT
	MANHOLE CATCH BASIN		EXISTING WATERMAIN
	UTILITY POLE		EXISTING STORM SEWER
	GUY POLE		EX. R. Y. CATCH BASIN
	GUY WIRE		EXISTING BURIED CABLES
	LIGHT POLE		OVERHEAD LINES
	SIGN		EXISTING GAS MAIN
	C.O.		PR. SANITARY SEWER
	HYDRANT		PR. WATER MAIN
	INLET		PR. STORM SEWER
	C.B.		PR. R. Y. CATCH BASIN
	MANHOLE		PROPOSED LIGHT POLE



PUBLICLY DEDICATED
MARKETPLACE CIRCLE (WIDTH VARIES)
ASPHALT PAVEMENT W/ CONC. CURB



There are several instances where the auto turn hangs over the curb. The fire apparatus needs to maneuver through the site with zero overhang over the curbs measured at the front of curb. These areas are highlighted in orange.

Many of these are within the gutter pan, no actually hitting the curb. We have cleaned up the turning movements to address the concerns.

Note added that FDC shall include bollard protection per city requirements.

Provide vehicle impact protection for the fire department connection. See installation requirements here:

Curb to curb dimension is 26'. Label added.

The aerial apparatus access road shall have a minimum unobstructed width of 26 feet exclusive of shoulders. This measurement is taken at front of curb.

provide this documentation

Owner/Developer to coordinate flow test.

shift hydrant here closer to curb

Hydrant has been shifted closer to back of curb.

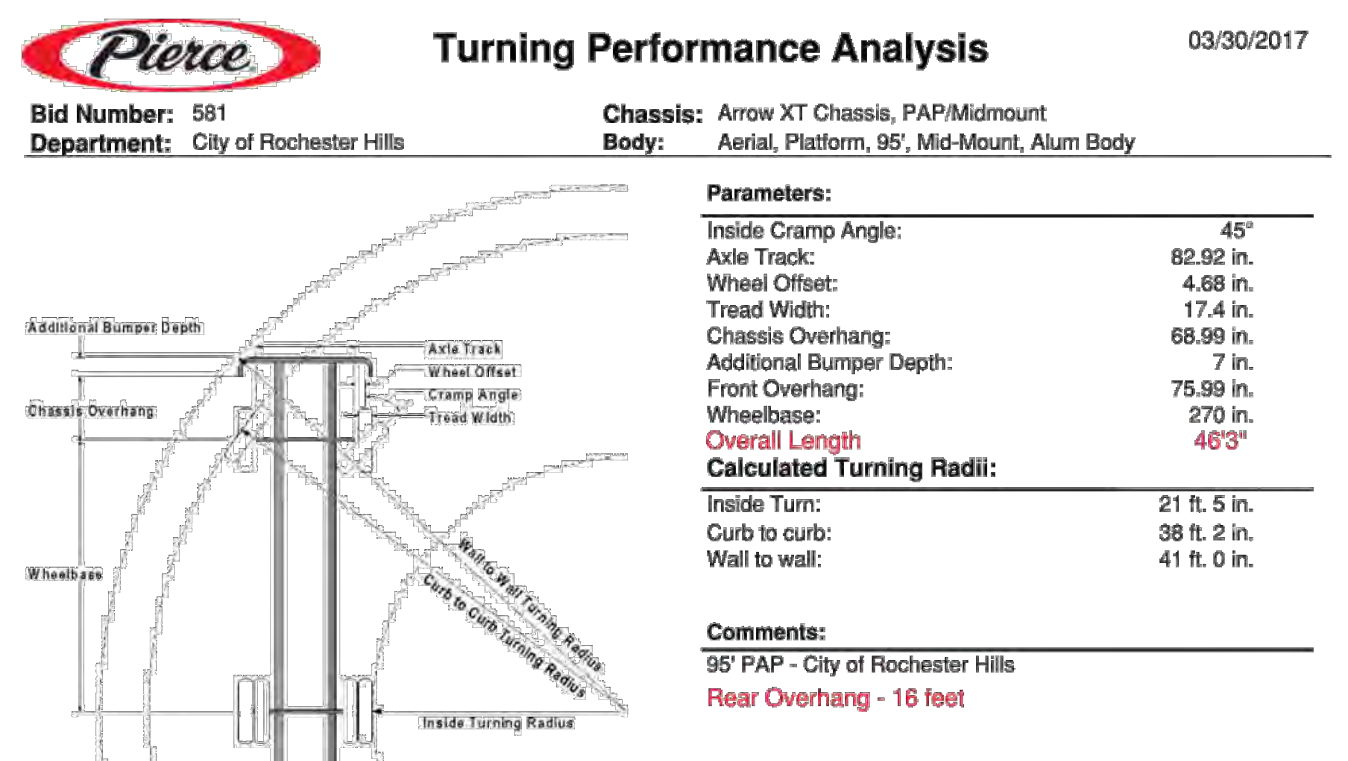
FLOW TEST NOTE

IN ORDER TO OBTAIN SITE PLAN APPROVAL, A FLOW TEST IS REQUIRED TO EVALUATE THE CAPABILITIES OF THE WATER SUPPLY. THIS CAN BE OBTAINED BY CONTACTING THE DPS ENGINEERING DEPARTMENT AT (248) 656-4640

FIRE DEPARTMENT NOTES

- 1) A "KNOW" KEY SYSTEM MAY BE REQUIRED IN A LOCATION APPROVED BY THE FIRE CODE OFFICIAL. ORDERING INFORMATION IS AVAILABLE THROUGH THE KNOW COMPANY AT WWW.KNOWBOX.COM.
- 2) 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. FIRE LANE SIGNS SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE" AND SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 3) CONSTRUCTION SITE SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC 2006 CHAPTER 14
- 4) OPEN BURNING IS NOT PERMITTED, INCLUDING THE BURNING OF TRASH, DEBRIS, OR LAND CLEARING MATERIALS. OPEN BURNING FOR WARMING OF SAND AND/OR WATER FOR THE PREPARATION OF MORTAR SHALL BE WITHIN CITY OF ROCHESTER HILLS BURN PERMIT GUIDELINES. CONTACT ROCHESTER HILLS FIRE DEPARTMENT FOR PERMIT INFORMATION.
- 5) PROVIDE "NO PARKING FIRE DEPARTMENT CONNECTION" SIGN OVER THE FIRE DEPARTMENT CONNECTION.
- 6) FDC'S SHALL NOT BE OBSTRUCTED BY LANDSCAPING, PARKING, OR ANY OTHER PERMANENT OR TEMPORARY MATERIALS OR DEVICES.
- 7) IF THE FIRE DEPARTMENT CONNECTION IS NOT LOCATED ON THE STREET FRONT OF THE BUILDING, A WHITE/CLEAR STROBE LIGHT SHALL BE TIED INTO THE FIRE ALARM SYSTEM AND INSTALLED OVER THE FDC.

L=194.39'(R&M)
R=970.00'(R&M)
A=11°28'55"(R&M)
CH=N88°36'41"W
194.06'(R&M)



**NOT TO BE USED AS
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DRAWINGS**

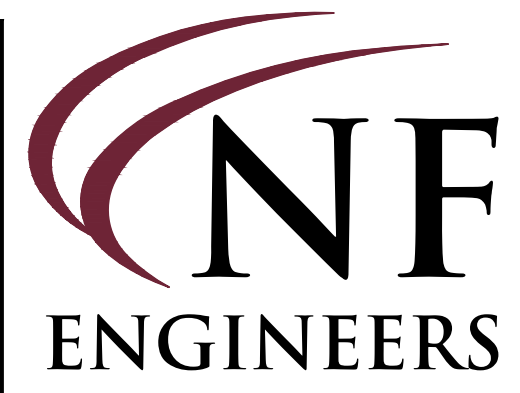
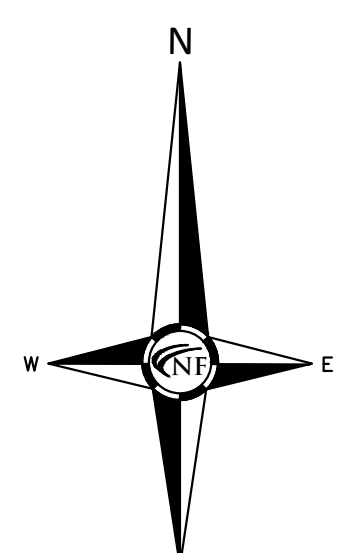
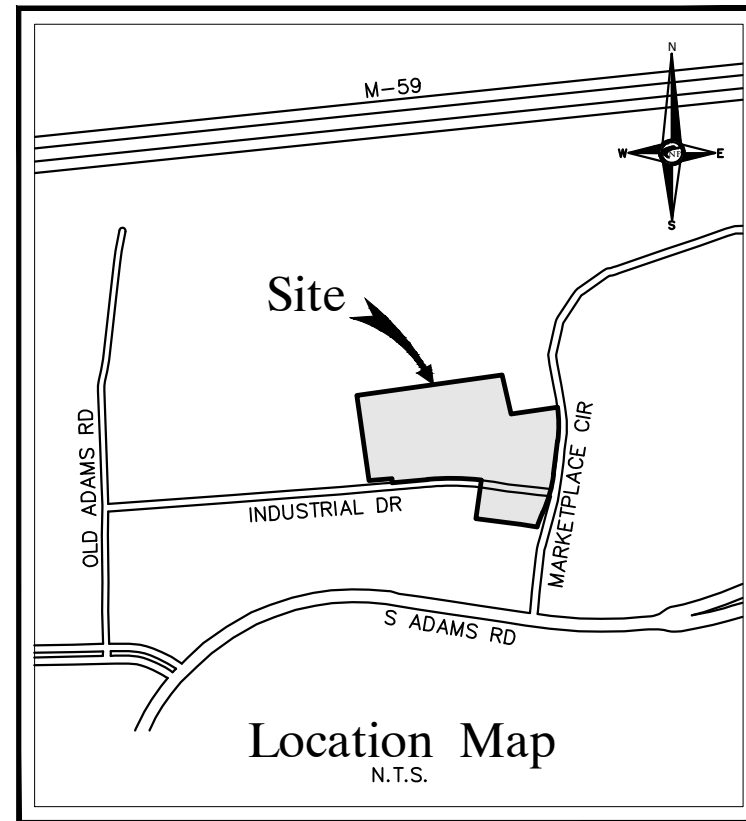
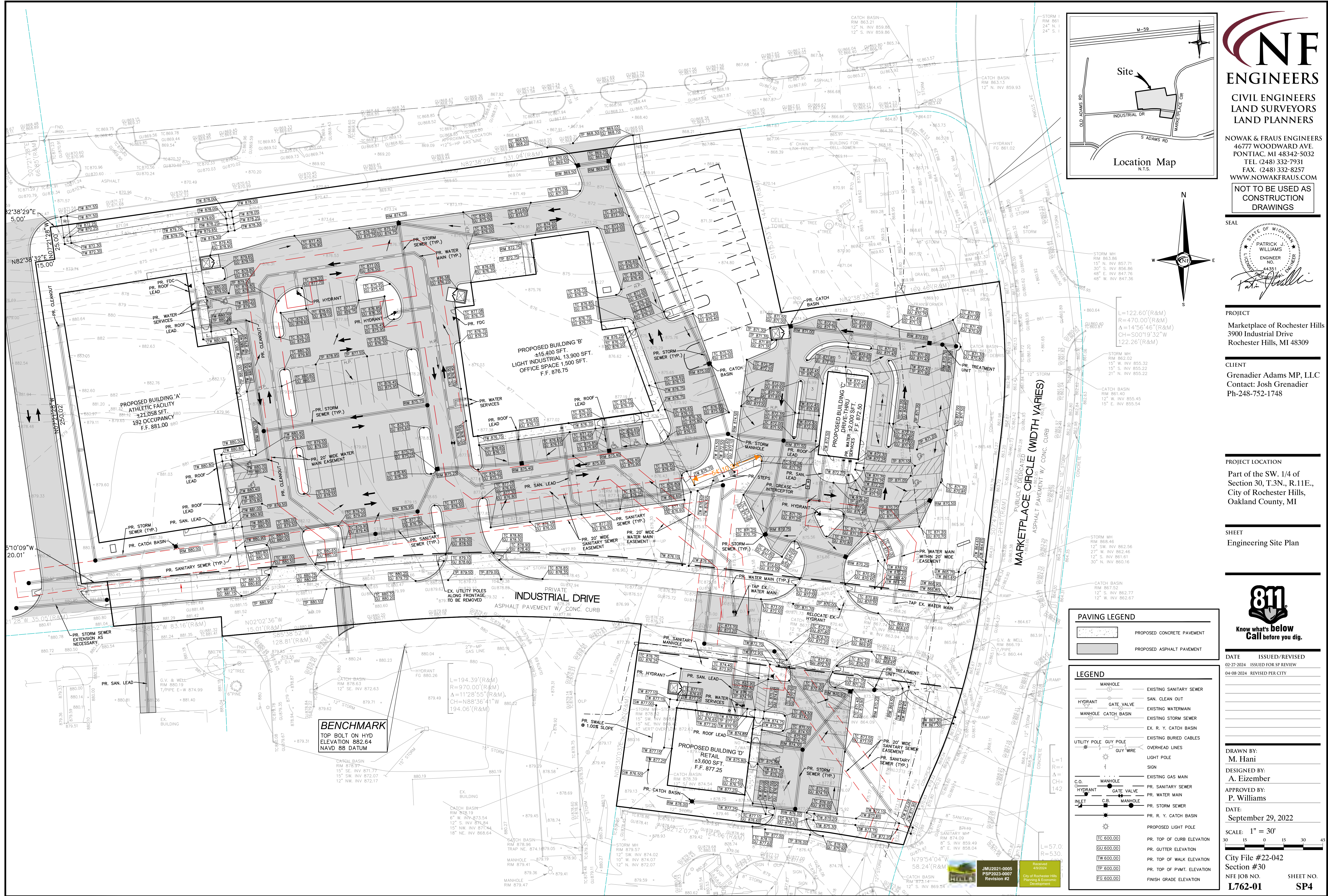
PAVING LEGEND

	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT PAVEMENT

LEGEND

	MANHOLE		EXISTING SANITARY SEWER
	HYDRANT		SAN. CLEAN OUT
	GATE VALVE		EXISTING WATERMAIN
	MANHOLE CATCH BASIN		EXISTING STORM SEWER
	UTILITY POLE		EX. R. Y. CATCH BASIN
	GUY POLE		EXISTING BURIED CABLES
	GUY WIRE		OVERHEAD LINES
	LIGHT POLE		SIGN
	C.O.		EXISTING GAS MAIN
	HYDRANT		PR. SANITARY SEWER
	INLET		PR. WATER MAIN
	C.B.		PR. STORM SEWER
	MANHOLE		PR. R. Y. CATCH BASIN
	PROPOSED LIGHT POLE		

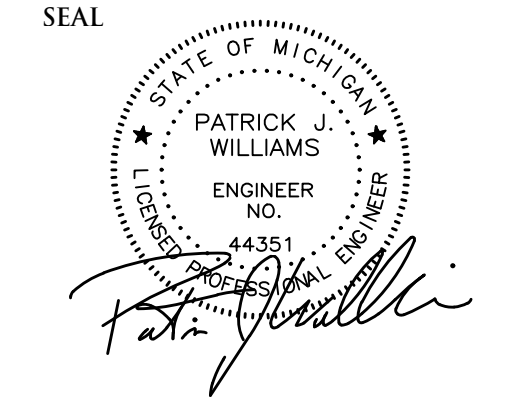
Received 09/20/24
City of Rochester Hills
Planning & Economic
Development



**CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS**

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

**NOT TO BE USED AS
CONSTRUCTION
DRAWINGS**



PROJECT
Marketplace of Rochester Hills
3900 Industrial Drive
Rochester Hills, MI 48309

CLIENT
Grenadier Adams MP, LLC
Contact: Josh Grenadier
Ph-248-752-1748

PROJECT LOCATION
Part of the SW 1/4 of
Section 30, T.3N., R.11E.,
City of Rochester Hills,
Oakland County, MI

SHEET
Engineering Site Plan



DATE ISSUED/REVIEW
02-27-2024 ISSUED FOR REVIEW
04-08-2024 REVISED PER CITY

DRAWN BY:
M. Hani
DESIGNED BY:
A. Eizember
APPROVED BY:
P. Williams

DATE:
September 29, 2022

SCALE: 1" = 30'
30 15 0 15 30 45

City File #22-042
Section #30
NFE JOB NO. SHEET NO.
L762-01 SP4

PAVING LEGEND

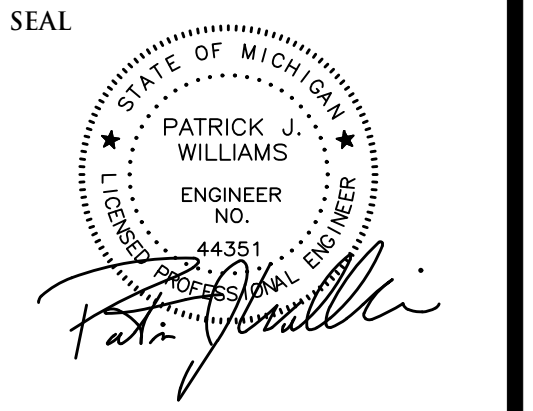
	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT PAVEMENT

LEGEND

	MANHOLE		EXISTING SANITARY SEWER
	HYDRANT		SAN. CLEAN OUT
	MANHOLE CATCH BASIN		EXISTING WATERMAIN
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	LIGHT POLE		EXISTING BURIED CABLES
	SIGN		OVERHEAD LINES
	C.O. MANHOLE		EXISTING GAS MAIN
	HYDRANT GATE VALVE		PR. SANITARY SEWER
	INLET C.B. MANHOLE		PR. WATER MAIN
	PR. R. Y. CATCH BASIN		PR. STORM SEWER
	PROPOSED LIGHT POLE		PR. PROPOSED CATCH BASIN
	TC 600.00		PR. TOP OF CURB ELEVATION
	GU 600.00		PR. GUTTER ELEVATION
	TW 600.00		PR. TOP OF WALK ELEVATION
	TP 600.00		PR. TOP OF PWMT. ELEVATION
	FG 600.00		FINISH GRADE ELEVATION

JMU2021-0005
PSP2023-0007
Revision #2

NOT TO BE USED AS CONSTRUCTION DRAWINGS



PROJECT
 Marketplace of Rochester Hills
 3900 Industrial Drive
 Rochester Hills, MI 48309

CLIENT
 Grenadier Adams MP, LLC
 Contact: Josh Grenadier
 Ph-248-752-1748

PROJECT LOCATION
 Part of the SW 1/4 of
 Section 30, T.3N., R.11E.,
 City of Rochester Hills,
 Oakland County, MI

SHEET
 Site Notes and Details



DATE ISSUED/REVISED
 02-27-2024 ISSUED FOR SP REVIEW
 04-08-2024 REVISED PER CITY

DRAWN BY:
 A. Eizember

DESIGNED BY:
 A. Eizember

APPROVED BY:
 P. Williams

DATE:
 September 29, 2022

SCALE: N.T.S.

City File #22-042
 Section #30
 NFE JOB NO. SHEET NO.
L762-01 SP5

GENERAL PAVING NOTES

PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

CONCRETE: PORTLAND CEMENT TYPE IA (AIR-ENTRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD; MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES.

ASPHALT: BASE COURSE - MDOT BITUMINOUS MIXTURE NO. 1100L, 20AA; SURFACE COURSE - MDOT BITUMINOUS MIXTURE NO. 1100T, 20AA; ASPHALT CEMENT PENETRATION GRADE 85-100, BOND COAT - MDOT SS-1H EMULSION AT 0.10 GALLON PER SQUARE YARD; MAXIMUM 2 INCH LIFT.

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

ALL CONCRETE PAVEMENT, DRIVEWAYS, CURBS & GUTTERS, ETC. SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS-5164.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.

ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.

CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LICENSES ARRANGE FOR ALL INSPECTION.

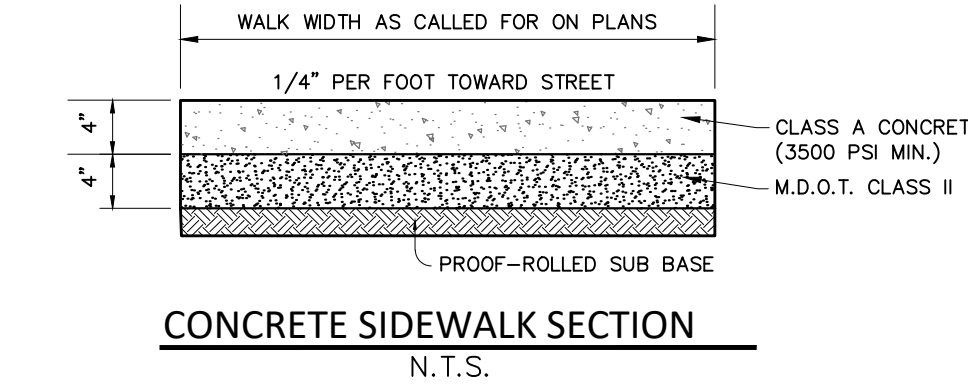
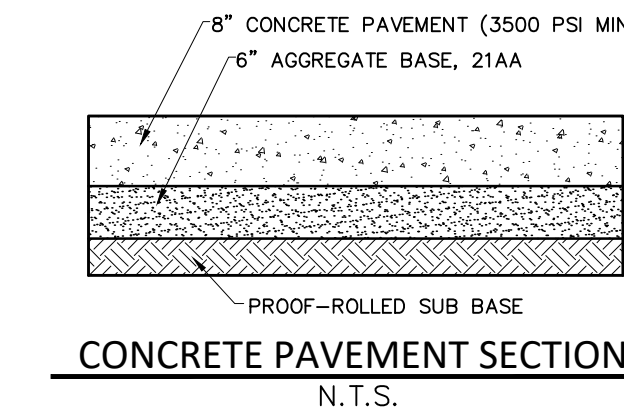
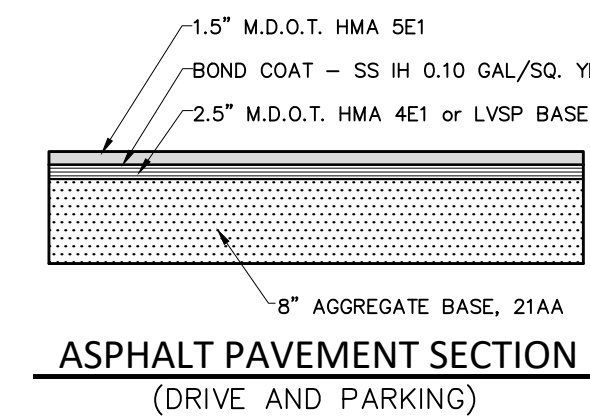
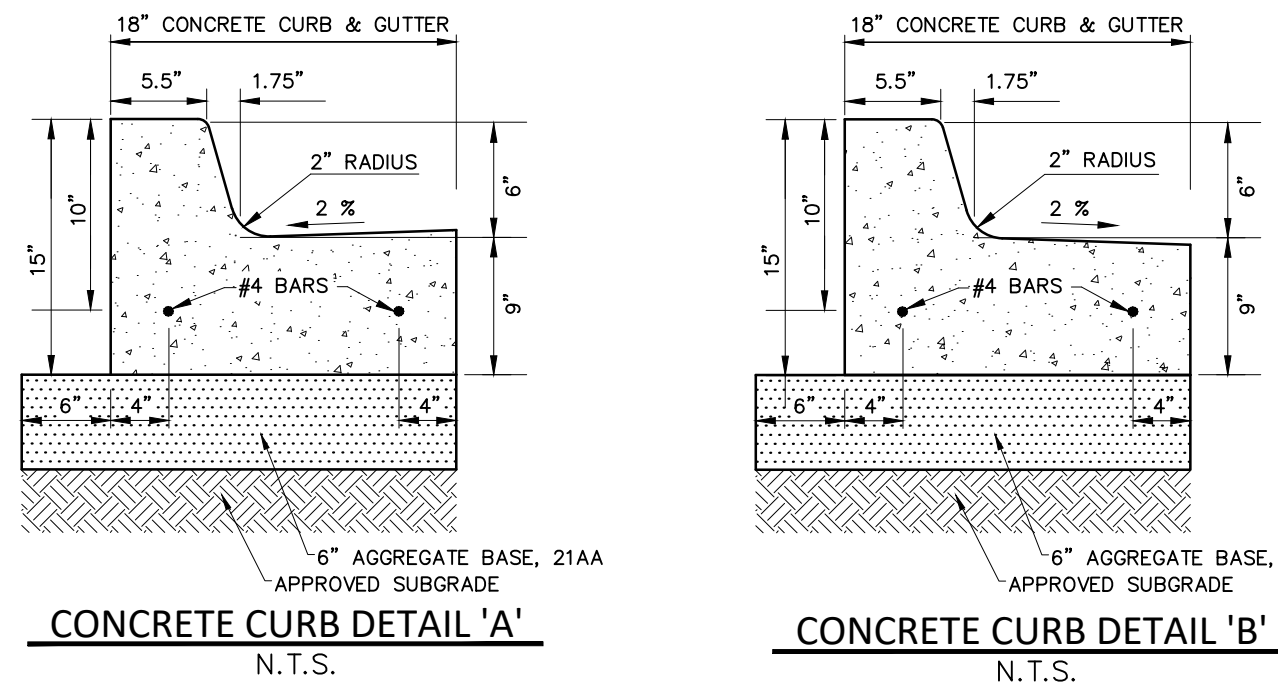
EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS.

EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.

SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.

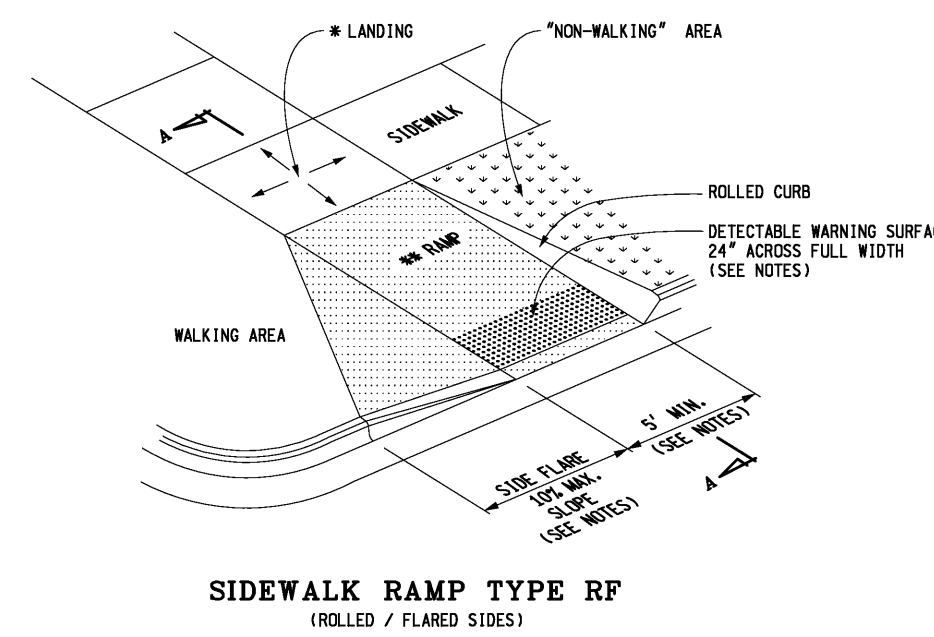
ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.

FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.



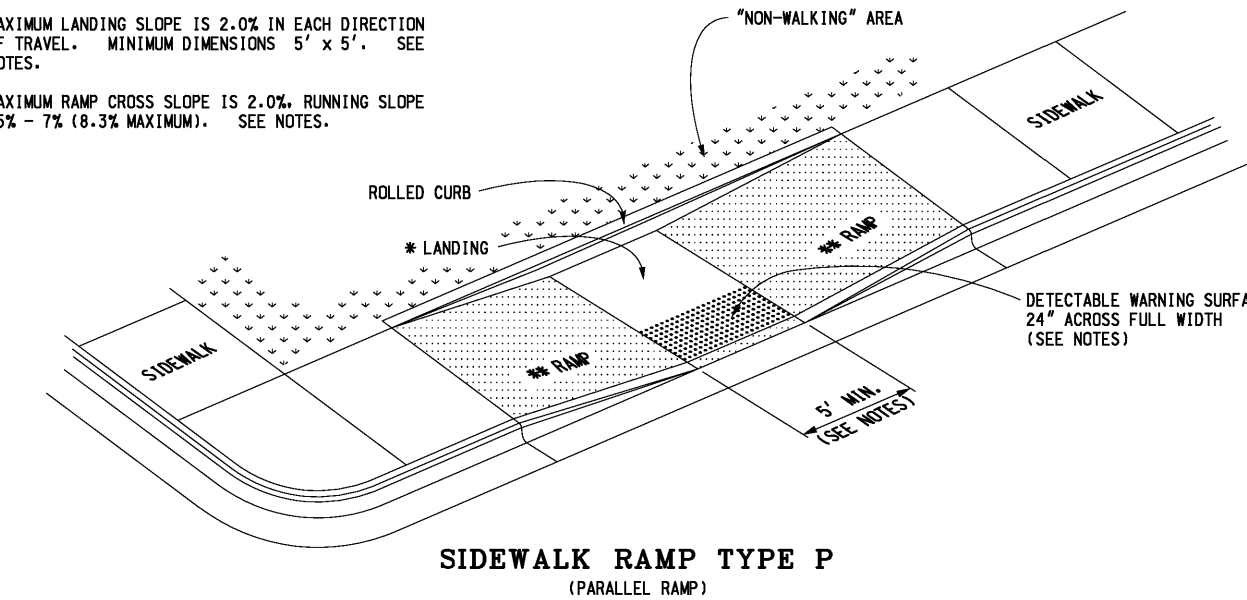
• MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL - MINIMUM DIMENSIONS 5' x 5' - SEE NOTES.

• MAXIMUM RAMP CROSS SLOPE IS 2.0%, RUNNING SLOPE 5% - 7% (8.2% MAXIMUM) - SEE NOTES.



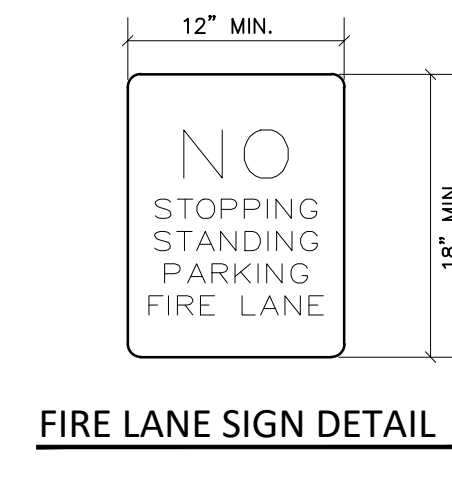
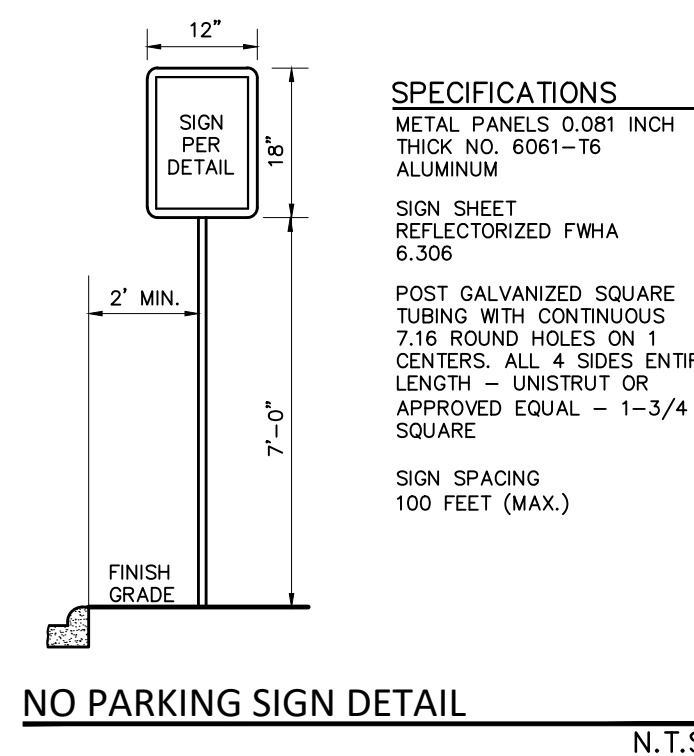
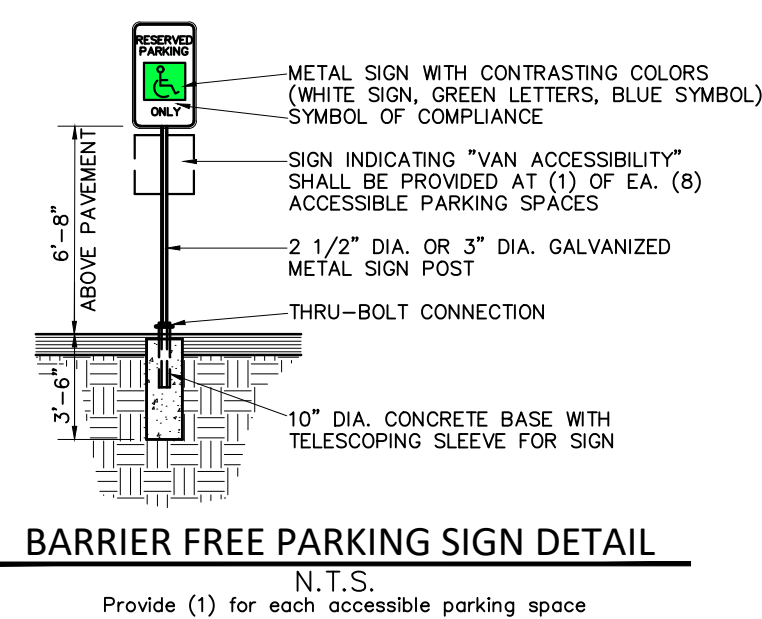
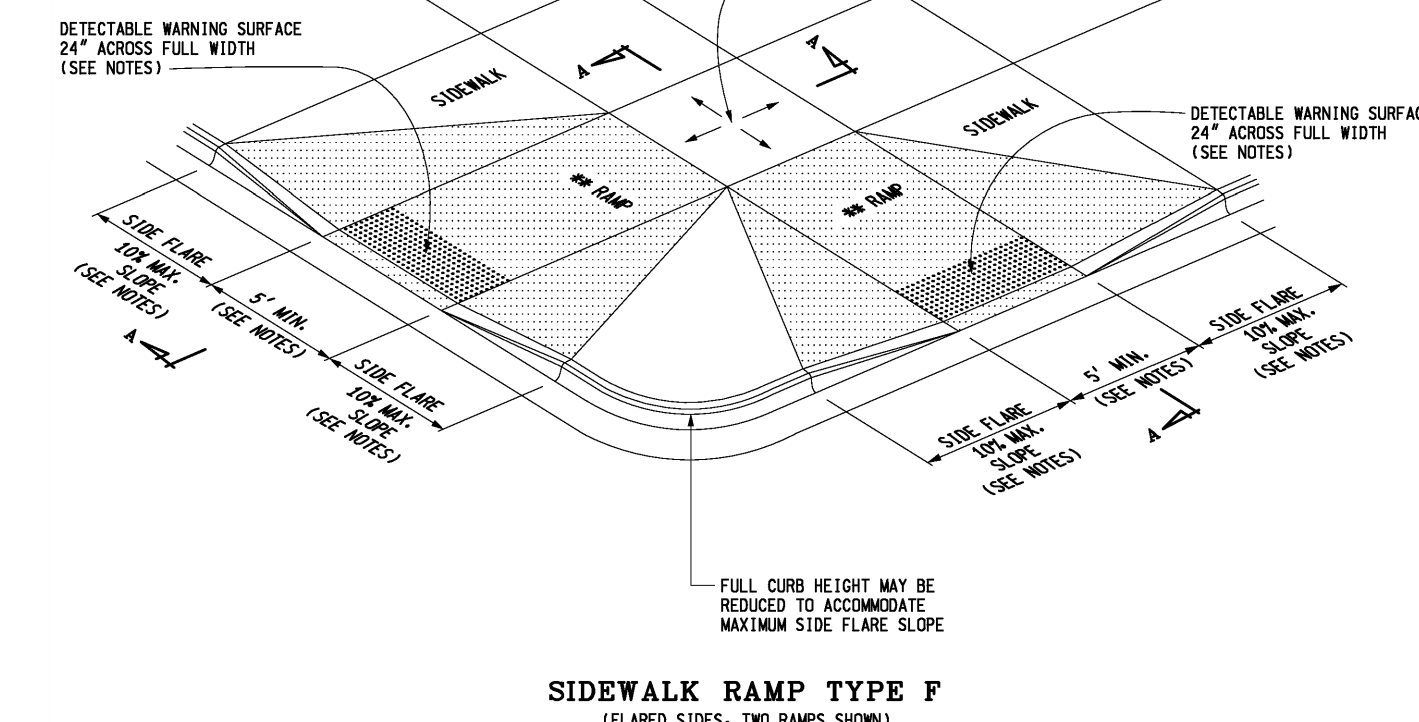
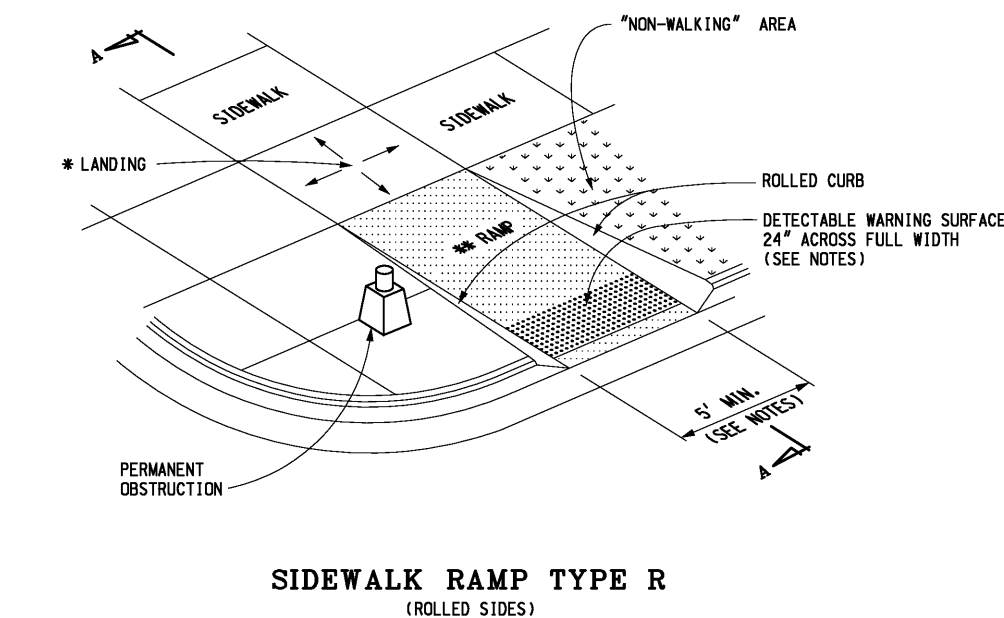
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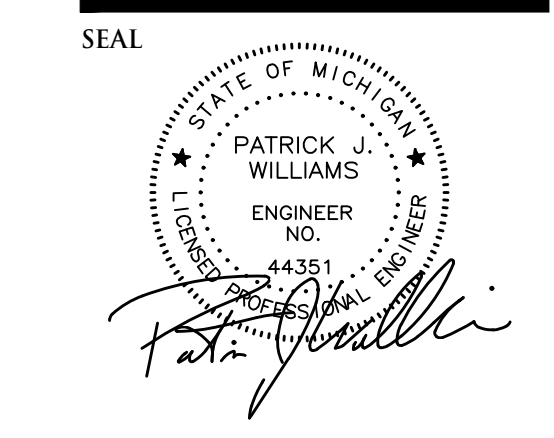


SPECIFICATIONS
 METAL PANELS 0.081 INCH THICK NO. 6061-T6 ALUMINUM
 SIGN SHEET REFLECTORIZED FWHA 6.306
 POST GALVANIZED SQUARE TUBING WITH CONTINUOUS 7/16 ROUND HOLES ON 1 CENTERS, ALL 4 SIDES ENTIRE LENGTH - UNISTRUT OR APPROVED EQUAL - 1-3/4 SQUARE
 SIGN SPACING 100 FEET (MAX.)

SANITARY SEWER BASIS OF DESIGN						
Use	Qty.	Unit	Factor			
Fitness Center (Building A)	19,500	Sq. Ft.	@ 0.29	Per 1,000	Sq. Ft.	= 5.66 REUs
Offices - General (Building A)	1,920	Sq. Ft.	@ 0.40	Per 1,000	Sq. Ft.	= 0.77 REUs
Warehouses & Storage (Building B)	8	Fixtures	@ 0.12	Per 1	Fixtures	= 0.96 REUs
Offices - General (Building B)	1,604	Sq. Ft.	@ 0.40	Per 1,000	Sq. Ft.	= 0.64 REUs
Quick Service Restaurants (w/ Dining) (Building C)	20	Fixtures	@ 0.49	Per 1	Fixtures	= 9.80 REUs
Stores (Building D)	3,600	Sq. Ft.	@ 0.04	Per 1,000	Sq. Ft.	= 0.14 REUs
Total REUs				=	17.97 REUs	
Equivalent Population				=	2.44 People Per REU	
Total Population				=	44 People	
Average Flow						
= 100 Gal/Per/Day * Population						
= 7.48 gal/cd * 86,400 sec/day						
= 4384.34 GPD = 0.0068 CFS						
Peak Factor						
= 18 + (# of Persons/1000) ^ 0.50						
= 4 + (# of Persons/1000) ^ 0.50						
= 4.33						
Peak Flow						
= Peak Factor * Average Flow						
= 18966.21 GPD = 0.0293 CFS						
Proposed Sanitary Sewer						
= 8 in. @ 0.40 % = 0.764 CFS						

NOT TO BE USED AS CONSTRUCTION DRAWINGS

NOT TO BE USED AS CONSTRUCTION DRAWINGS



PROJECT
Marketplace of Rochester Hills
3900 Industrial Drive
Rochester Hills, MI 48309

CLIENT
Grenadier Adams MP, LLC
Contact: Josh Grenadier
Ph-248-752-1748

PROJECT LOCATION
Part of the SW 1/4 of
Section 30, T.3N., R.11E.,
City of Rochester Hills,
Oakland County, MI

SHEET
Storm Water Management
Plan



DATE ISSUED/REVISED
02-27-2024 ISSUED FOR SP
04-08-2024 REVISED PER CITY

DRAWN BY:
M. Hani

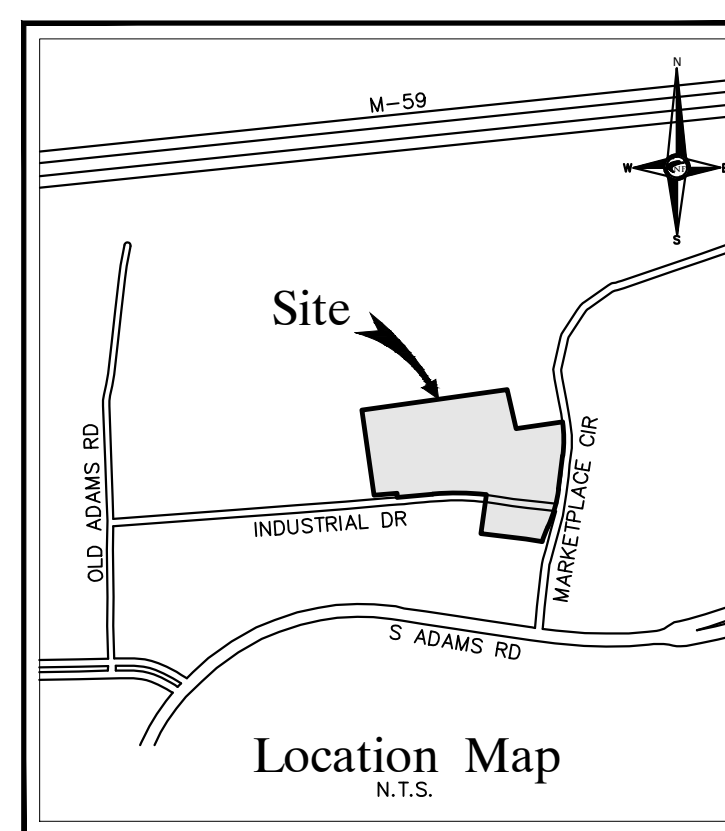
DESIGNED BY:
A. Eizember

APPROVED BY:
P. Williams

DATE:
September 29, 2022

SCALE: 1" = 30'
30 15 0 15 30 45

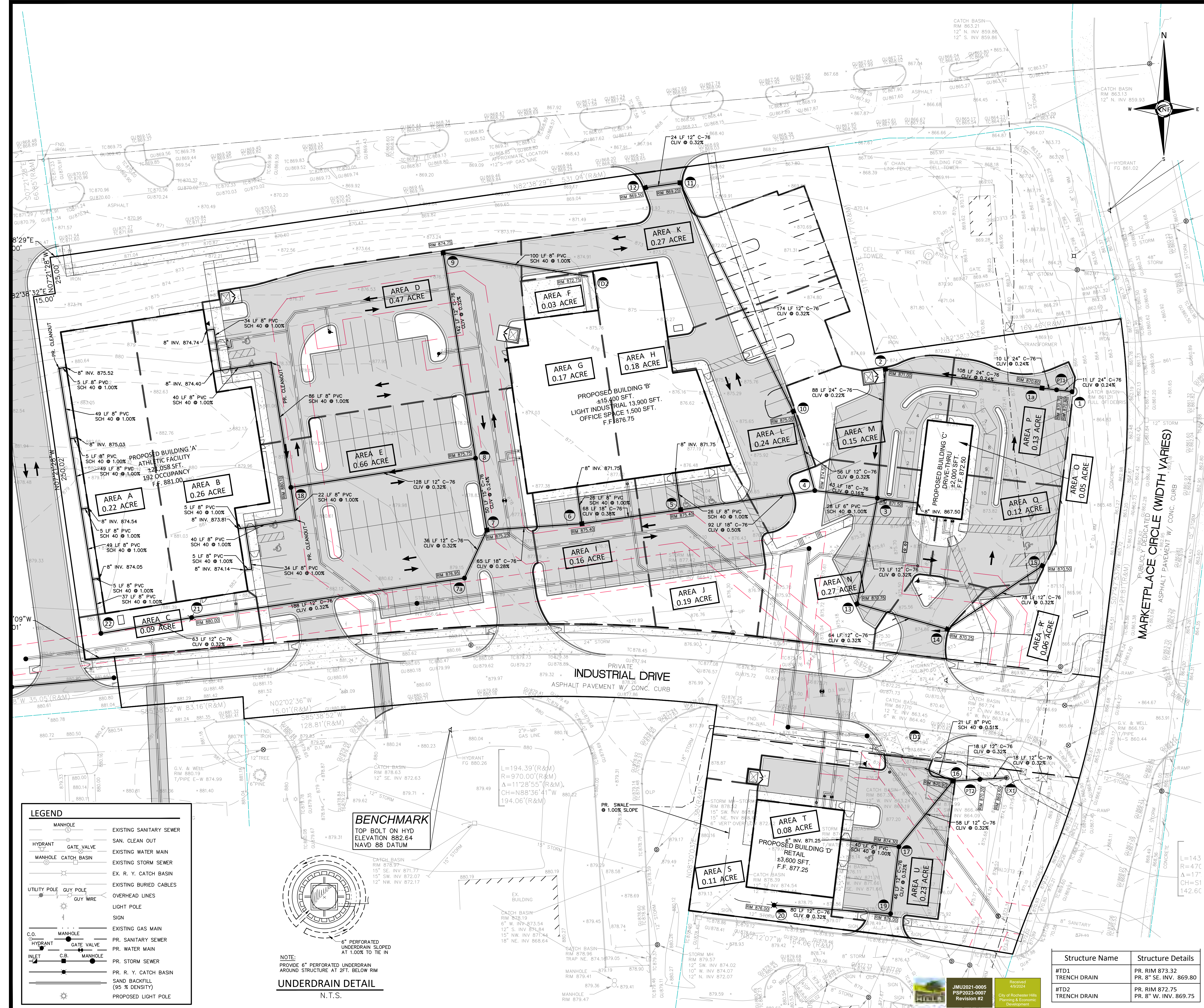
City File #22-042
Section #30
NFE JOB NO. **L762-01** SHEET NO. **SP6**



Storm Drainage Structure Schedule

Structure Name	Structure Details
#1 Concentric Cylindrical Structure	PR. RIM 870.80 PR. 24" W. INV. 863.42 EX. 30" N. INV. 857.50 EX. 30" S. INV. 857.50
#1a 4' DIA CB W/ 2' SUMP	PR. RIM 870.60 PR. 24" W. INV. 863.67 PR. 24" E. INV. 863.57
#2 4' DIA. CB	PR. RIM 871.00 PR. 24" S. INV. 864.02 PR. 24" E. INV. 863.92
#3 4' DIA. MH	PR. RIM 871.50 PR. 18" W. INV. 864.32 PR. 12" S. INV. 865.61 PR. 24" N. INV. 864.22 PR. 6" E. INV. 867.22
#4 4' DIA. MH	PR. RIM 874.50 PR. 12" N. INV. 864.49 PR. 18" W. INV. 866.78 PR. 18" E. INV. 864.39
#5 4' DIA. CB	PR. RIM 875.40 PR. 18" W. INV. 867.34 PR. 18" E. INV. 867.24 PR. 8" N. INV. 871.49
#6 4' DIA. CB	PR. RIM 875.40 PR. 18" W. INV. 867.69 PR. 18" E. INV. 867.59 PR. 8" N. INV. 871.49
#7 4' DIA. CB	PR. RIM 875.25 PR. 15" N. INV. 867.98 PR. 18" E. INV. 867.88 PR. 12" SW. INV. 872.41
#7a 4' DIA MANHOLE	PR. RIM 876.95 PR. 12" NE. INV. 872.53 PR. 12" W. INV. 872.63
#8 4' DIA. MH	PR. RIM 875.75 PR. 12" N. INV. 868.20 PR. 12" W. INV. 872.63 PR. 15" S. INV. 868.10
#9 4' DIA. CB	PR. RIM 874.75 PR. 8" E. INV. 868.75 PR. 12" S. INV. 868.65
#10 4' DIA. CB	PR. RIM 875.00 PR. 12" NW. INV. 864.77 PR. 12" S. INV. 864.67
#11 4' DIA. CB	PR. RIM 869.25 PR. 12" W. INV. 865.42 PR. 12" SE. INV. 865.32
#12 4' DIA. CB	PR. RIM 869.50 PR. 12" E. INV. 865.50
#13 4' DIA. CB	PR. RIM 870.75 PR. 12" E. INV. 865.95 PR. 12" N. INV. 865.85
#14 4' DIA. CB	PR. RIM 870.25 PR. 12" NE. INV. 866.25 PR. 12" W. INV. 866.15
#15 4' DIA. CB	PR. RIM 870.50 PR. 12" SW. INV. 866.50
#16 4' DIA. CB	PR. RIM 870.90 PR. 12" E. INV. 864.91 PR. 8" NW. INV. 869.70 PR. 12" SW. INV. 866.91
#17 4' DIA. MH	PR. RIM 874.30 PR. 12" NE. INV. 867.10 PR. 6" W. INV. 870.85 PR. 12" S. INV. 869.60
#18 4' DIA. MH	PR. RIM 880.10 PR. 8" N. INV. 873.14 PR. 8" S. INV. 873.14 PR. 12" E. INV. 873.04
#19 4' DIA. MH	PR. RIM 876.00 PR. 12" E. INV. 869.74 PR. 12" W. INV. 871.74
#20 4' DIA. RYCB	PR. RIM 876.00 PR. 12" E. INV. 872.00
#21 4' DIA. RYCB	PR. RIM 880.00 PR. 12" E. INV. 873.23 PR. 12" W. INV. 873.33
#22 4' DIA. MH	PR. RIM 880.50 PR. 12" E. INV. 873.53 PR. 8" N. INV. 873.63
#E1 TAP & ADJUST EX. MANHOLE	PR. RIM 871.00 PR. 12" W. INV. 864.69 EX. 12" NE. INV. 864.09 EX. 12" S. INV. 866.49
#PT1 PRE-TREATMENT UNIT	PR. RIM 870.70 PR. 24" W. INV. 863.54 PR. 24" E. INV. 863.44
#PT2 PRE-TREATMENT UNIT	PR. RIM 870.20 PR. 12" E. INV. 864.75 PR. 12" W. INV. 864.85

Structure Name	Structure Details
#TD1 TRENCH DRAIN	PR. RIM 873.32 PR. 8" SE. INV. 869.80
#TD2 TRENCH DRAIN	PR. RIM 872.75 PR. 8" W. INV. 869.75



JUL2024-0005
PSP2324-0074
Revision #2

Received #92024
City of Rochester Hills
Planning & Economic
Development

Weighted Run-off Coefficient Calculation "C"					
Total Site:	180,141	S.F.	or	4.14	Acres
1. Pavement and Roofs:	151,399	S.F.	or	3.48	Acres
2. Lawn, Landscape & Buffers:	28,742	S.F.	or	0.66	Acres
Sum of Individual Areas:	180,141	S.F.	or	4.14	Acres
Area No. 1 - Coefficient:	0.95				
Area No. 2 - Coefficient:	0.35				
"C" (Average) =	Area 1 * C1 + Area 2 * C2 / Area 1 + Area 2				
"C" (Average) =	0.85				
"C" by Areas					
Area A:	Pavement:	9569 S.F.		0.22	Acres
	Grass:	0 S.F.		0.00	Acres
	Total:	9569 S.F.		0.22	Acres
				C=	0.95
Area B:	Pavement:	11490 S.F.		0.26	Acres
	Grass:	0 S.F.		0.00	Acres
	Total:	11490 S.F.		0.26	Acres
				C=	0.95
Area C:	Pavement:	362 S.F.		0.01	Acres
	Grass:	3645 S.F.		0.08	Acres
	Total:	4007 S.F.		0.09	Acres
				C=	0.40
Area D:	Pavement:	18788 S.F.		0.43	Acres
	Grass:	1896 S.F.		0.04	Acres
	Total:	20684 S.F.		0.47	Acres
				C=	0.90
Area E:	Pavement:	24758 S.F.		0.57	Acres
	Grass:	3852 S.F.		0.09	Acres
	Total:	28610 S.F.		0.66	Acres
				C=	0.87
Area F:	Pavement:	1338 S.F.		0.03	Acres
	Grass:	0 S.F.		0.00	Acres
	Total:	1338 S.F.		0.03	Acres
				C=	0.95
Area G:	Pavement:	7429 S.F.		0.17	Acres
	Grass:	0 S.F.		0.00	Acres
	Total:	7429 S.F.		0.17	Acres
				C=	0.95
Area H:	Pavement:	7963 S.F.		0.18	Acres
	Grass:	0 S.F.		0.00	Acres
	Total:	7963 S.F.		0.18	Acres
				C=	0.95
Area I:	Pavement:	5185 S.F.		0.12	Acres
	Grass:	1900 S.F.		0.04	Acres
	Total:	7085 S.F.		0.16	Acres
				C=	0.79
Area J:	Pavement:	5289 S.F.		0.12	Acres
	Grass:	3114 S.F.		0.07	Acres
	Total:	8403 S.F.		0.19	Acres
				C=	0.73
Area K:	Pavement:	10540 S.F.		0.24	Acres
	Grass:	1018 S.F.		0.02	Acres
	Total:	11558 S.F.		0.27	Acres
				C=	0.90
Area L:	Pavement:	9824 S.F.		0.23	Acres
	Grass:	419 S.F.		0.01	Acres
	Total:	10243 S.F.		0.24	Acres
				C=	0.93
Area M:	Pavement:	4388 S.F.		0.10	Acres
	Grass:	2007 S.F.		0.05	Acres
	Total:	6395 S.F.		0.15	Acres
				C=	0.76
Area N:	Pavement:	6430 S.F.		0.15	Acres
	Grass:	5199 S.F.		0.12	Acres
	Total:	11629 S.F.		0.27	Acres
				C=	0.68
Area O:	Pavement:	2000 S.F.		0.05	Acres
	Grass:	0 S.F.		0.00	Acres
	Total:	2000 S.F.		0.05	Acres
				C=	0.95
Area P:	Pavement:	5577 S.F.		0.13	Acres
	Grass:	201 S.F.		0.00	Acres
	Total:	5778 S.F.		0.13	Acres
				C=	0.93
Area Q:	Pavement:	5161 S.F.		0.12	Acres
	Grass:	53 S.F.		0.00	Acres
	Total:	5214 S.F.		0.12	Acres
				C=	0.94

T= 15 Minutes		Time of Concentration		City of Rochester Hills, Oakland County, Michigan										Project No: L762											
I = 30.20p^0.22 / (Tc+9.17)^0.81		10 Year Storm Event Intensity		Storm Sewer Calculations										Project Name: Marketplace of Rochester Hills											
n (Conc. 0.013)		Manning's Roughness Coefficient												Location: Marketplace Circle											
n (Pvc) 0.013		Manning's Roughness Coefficient												Dated: September 28, 2022											
														Revised: 04/08/24											
Drainage Area	From Struc. No.	To Struc. No.	Drainage Area (Acres)	Runoff Coefficient (C)	Equivalent Area (C * A)	Total Area (Sum C * A)	Time of Concentration (Minutes)	Rainfall Intensity (Inches/Hr.)	Actual Discharge (CFS)	Pipe Size (Inches)	Pipe Slope (% Slope)	Pipe Length (Feet)	Flow Velocity (Ft / Sec)	Time of Flow (Minutes)	Full Pipe Capacity (CFS)	H. G. Elev. Upper End (Feet)	H. G. Elev. Lower End (Feet)	H. G. Slope (% Slope)	Theoretical Velocity (Ft / Sec)	Ground Elevation (Upper) (Feet)	Change in Elevation (Feet)	Invert Elev. Upper End (Feet)	Invert Elev. Lower End (Feet)	Upper Rim to HGL (Feet)	
A	ROOF	22	0.22	0.95	0.209	0.209	15.00	3.798	0.794	8	1.00	37	3.462	0.18	1.208	874.32	874.16	0.431	2.27	881.00	0.37	874.00	873.63	6.68	
B	ROOF	18	0.26	0.95	0.247	0.247	15.00	3.798	0.938	8	1.00	86	3.462	0.41	1.208	874.19	873.67	0.603	2.69	881.00	0.86	874.00	873.14	6.81	
-		18	8	0.00	0.95	0.000	0.247	15.41	3.746	0.925	12	0.32	128	2.566	0.83	2.015	873.52	873.43	0.067	1.18	880.10	0.41	873.04	872.63	6.58
F	TD2	9	0.03	0.95	0.029	0.029	15.00	3.798	0.108	8	1.00	100	3.462	0.48	1.208	869.38	869.37	0.008	0.31	872.75	1.00	869.75	868.75	3.37	
D		8	0.47	0.90	0.423	0.452	15.48	3.738	1.688	12	0.32	142	2.566	0.92	2.015	869.37	869.05	0.224	2.15	874.75	0.45	868.65	868.20	5.38	
-		8	7	0.00	0.95	0.000	0.699	16.40	3.628	2.534	15	0.24	50	2.579	0.32	3.165	869.05	868.98	0.154	2.07	875.75	0.12	868.10	867.98	6.70
-		22	21	0.00	0.95	0.000	0.209	15.18	3.775	0.789	12	0.32	63	2.566	0.41	2.015	874.16	874.13	0.049	1.00	880.50	0.20	873.53	873.33	6.34
C		21	7a	0.09	0.40	0.036	0.245	15.59	3.725	0.913	12	0.32	188	2.566	1.22	2.015	873.55	873.43	0.066	1.16	880.00	0.60	873.23	872.63	6.45
-		7a	7	0.00	0.95	0.000	0.245	16.81	3.582	0.876	12	0.32	36	2.566	0.23	2.015	873.23	873.21	0.061	1.12	876.95	0.12	872.53	872.41	3.72
E		7	6	0.66	0.87	0.574	1.518	17.04	3.556	5.398	18	0.28	65	3.145	0.34	5.558	869.07	868.89	0.264	3.05	875.25	0.18	867.88	867.69	6.18
G		6A	6	0.17	0.95	0.162	0.162	15.00	3.798	0.613	8	1.00	26	3.462	0.13	1.208	872.17	872.10	0.258	1.76	876.75	0.26	871.75	871.49	4.58
I		6	5	0.16	0.79	0.126	1.806	17.39	3.519	6.354	18	0.38	68	3.664	0.31	6.475	872.35	872.10	0.366	3.60	875.40	0.26	867.59	867.34	3.05
H		5A	5	0.18	0.95	0.171	0.171	15.00	3.798	0.649	8	1.00	26	3.462	0.13	1.208	872.10	872.02	0.289	1.86	876.75	0.26	871.75	871.49	4.65
J		5	4	0.19	0.73	0.139	2.115	17.70	3.486	7.374	18	0.50	92	4.203	0.36	7.428	868.43	867.98	0.493	4.17	875.40	0.46	867.24	866.78	6.97
K/2		12	11	0.14	0.90	0.126	0.126	15.00	3.798	0.479	12	0.32	24	2.566	0.16	2.015	866.23	866.22	0.018	0.61	869.50	0.08	865.50	865.42	3.27
K/2		11	10	0.14	0.90	0.126	0.252	15.16	3.778	0.952	12	0.32	174	2.566	1.13	2.015	865.69	865.57	0.071	1.21	869.25	0.56	865.32	864.77	3.56
L		10	4	0.24	0.93	0.223	0.475	16.29	3.642	1.731	12	0.32	56	2.566	0.36	2.015	866.12	865.99	0.236	2.20	875.00	0.18	864.67	864.49	8.88
-		4	3	0.00	0.95	0.000	2.591	18.06	3.448	8.933	24	0.16	43	2.890	0.25	9.049	865.99	865.92	0.156	2.84	874.50	0.07	864.39	864.32	8.51
Q		15	14	0.12	0.94	0.113	0.113	15.00	3.798	0.428	12	0.32	78	2.566	0.51	2.015	867.06	867.05	0.014	0.55	870.50	0.25	866.50	866.25	3.44
R		14	13	0.06	0.79	0.047	0.160	15.51	3.735	0.598	12	0.32	64	2.566	0.42	2.015	867.67	867.65	0.028	0.76	870.25	0.20	866.15	865.95	2.58
N		13	3	0.27	0.68	0.184	0.344	15.92	3.685	1.267	12	0.32	73	2.566	0.47	2.015	867.74	867.65	0.126	1.61	870.75	0.23	865.85	865.61	3.01
O		3A	3	0.05	0.95	0.048	0.048	15.00	3.798	0.180	6	1.00	28	2.858	0.16	0.561	867.65	867.62	0.103	0.92	872.50	0.28	867.50	867.22	4.85
-		3	2	0.00	0.95	0.000	2.982	18.31	3.423	10.207	24	0.22	88	3.378	0.43	10.611	865.80	865.62	0.204	3.25	871.50	0.19	864.22	864.02	5.70
M		2	1a	0.15	0.76	0.114	3.096	18.74	3.380	10.463	24	0.24	108	3.528	0.51	11.083	865.50	865.27	0.214	3.33	871.00	0.26	863.92	863.67	5.50
P		1a	PT1	0.13	0.93	0.121	3.217	19.25	3.331	10.714	24	0.24	10	3.528	0.05	11.083	865.16	865.14	0.224	3.41	870.60	0.02	863.57	863.54	5.44
-		PT1	1	0.00	0.95	0.000	3.217	19.30	3.326	10.699	24	0.24	11	3.528	0.05	11.083	865.04	865.02	0.224	3.41	870.70	0.03	863.44	863.42	5.66

T= 15 Minutes		Time of Concentration		City of Rochester Hills, Oakland County, Michigan										Project No: L762		
I = 30.20p^0.22 / (Tc+9.17)^0.81		10 Year Storm Event Intensity		Storm Sewer Calculations										Project Name: Marketplace of Rochester Hills		
n (Conc. 0.013)		Manning's Roughness Coefficient												Location: Marketplace Circle		
n (Pvc) 0.013		Manning's Roughness Coefficient												Dated: September 28, 2022		
														Revised: 04/08/24		
Drainage Area	From Struc. No.	To Struc. No.	Drainage Area (Acres)	Runoff Coefficient (C)	Equivalent Area (C * A)	Total Area (Sum C * A)	Time of Concentration (Minutes)	Rainfall Intensity (Inches/Hr.)	Actual Discharge (CFS)	Pipe Size (Inches)	Pipe Slope (% Slope)	Pipe Length (Feet)	Flow Velocity (Ft / Sec)	Time of Flow (Minutes)	Full Pipe Capacity (CFS)	H. G. Elev. Upper End (Fe



69345.72 72"L x 16"W x 32"H 69"L x 13.25"W 72"L x 16"W 73.2 lbs 137

FIBERGLASS PLANTERS

MODULAR FIBERGLASS PLANTER AVAILABLE FROM:
POTS, PLANTERS AND MORE
1-855-208-2709
COLOR: GUNMETAL
FINISH: LOW GLOSS

PLANTING NOTES:

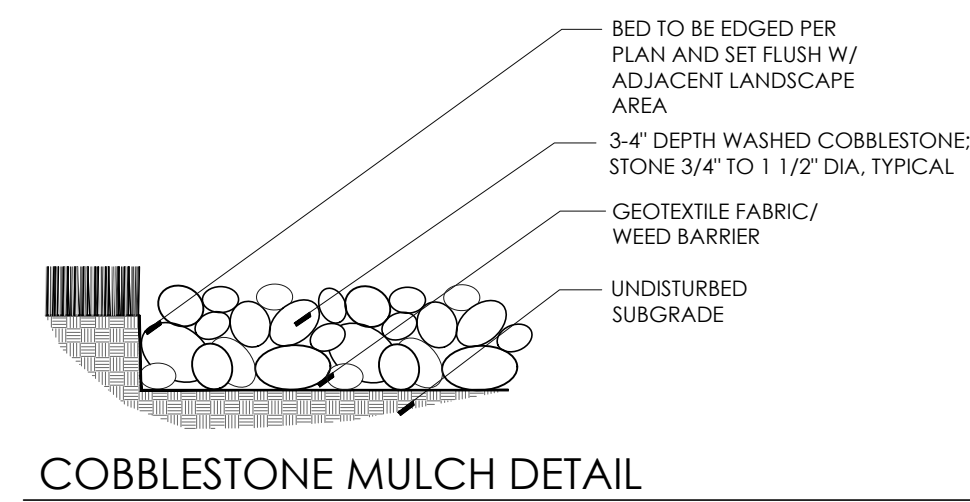
1. THE CONTRACTOR SHALL VERIFY ALL RIGHTS OF WAY, EASEMENTS, PROPERTY LINES AND LIMITS OF WORK, ETC. PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL PERTINENT UTILITY COMPANIES 72 HOURS IN ADVANCE OF ANY DIGGING TO MAKE THEMSELVES FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
3. THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
4. ANY DISCREPANCIES BETWEEN DIMENSIONED LAYOUT AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT. FAILURE TO MAKE SUCH DISCREPANCIES KNOWN WILL RESULT IN CONTRACTOR'S RESPONSIBILITY AND LIABILITY FOR ANY CHANGES AND ASSOCIATED COST.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH CONSTRUCTION INSTALLATION OPERATIONS.
6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN POSITIVE SURFACE DRAINAGE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, AND/OR OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
8. SEE SPECIFICATIONS, PLANT LIST AND PLANTING DETAILS FOR PLANTING REQUIREMENTS, MATERIALS AND EXECUTION.
9. ALL TREES TO HAVE CLAY LOAM OR CLAY BALLS - TREES WITH SAND BALLS SHALL NOT BE ACCEPTED.
10. ALL TREES TO BE APPROVED BY OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO THE SITE. ANY TREES DELIVERED TO THE SITE NOT PREVIOUSLY APPROVED MAY BE REJECTED AND ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
11. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
12. THE CONTRACTOR TO VERIFY PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL.
13. THE CONTRACTOR SHALL PLACE 3" DEPTH OF SHREDDED BARK MULCH IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED.

CONSTRUCTION NOTES:

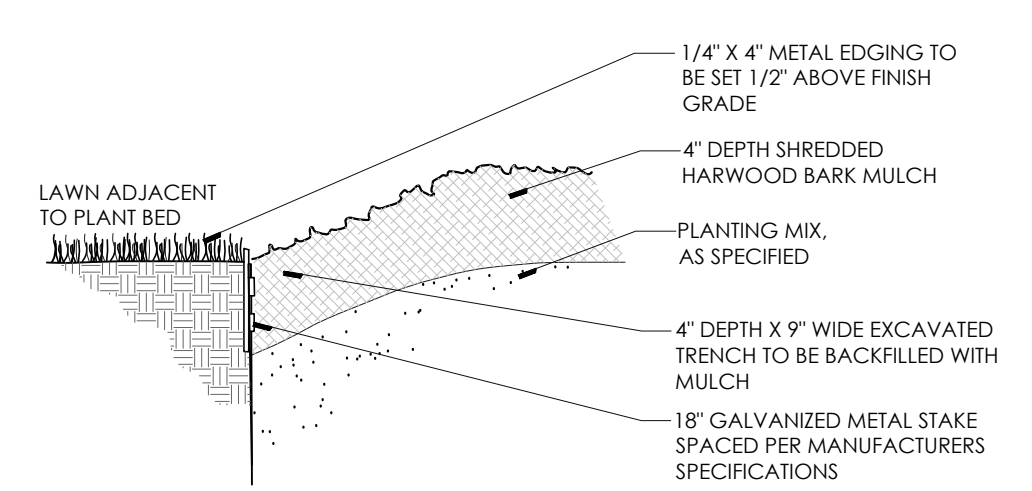
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SURVEY INFORMATION INCLUDING THE UTILITY SYSTEMS BEFORE ANY DEMOLITION OR CONSTRUCTION WORK OCCURS. ANY DISCREPANCIES WITH THE SURVEY INFORMATION SHALL BE REPORTED TO THE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
3. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND / OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CITY ENGINEER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO LACK OF SUCH NOTIFICATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
5. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
6. SEE SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS, MATERIALS, AND EXECUTION.
7. ALL PROPERTY LINES AND LOT LINES SHALL BE VERIFIED PRIOR TO COMMENCING WORK.
8. CONTRACTOR SHALL SUBMIT ALL SAMPLES PER SPECIFICATIONS. ALL SAMPLES SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
9. DIMENSIONAL FLEXIBILITY SHALL BE WITHIN PLANT BEDS ONLY.
10. CONTRACTOR SHALL COORDINATE ALL SITE LAYOUT WITH THE LANDSCAPE ARCHITECT AND REPORT ANY DIMENSIONAL DISCREPANCIES PRIOR TO CONSTRUCTION.
11. HANDICAPPED RAMPS SHALL MEET ALL CURRENT BARRIER FREE DESIGN CODES.

GRADING NOTES:

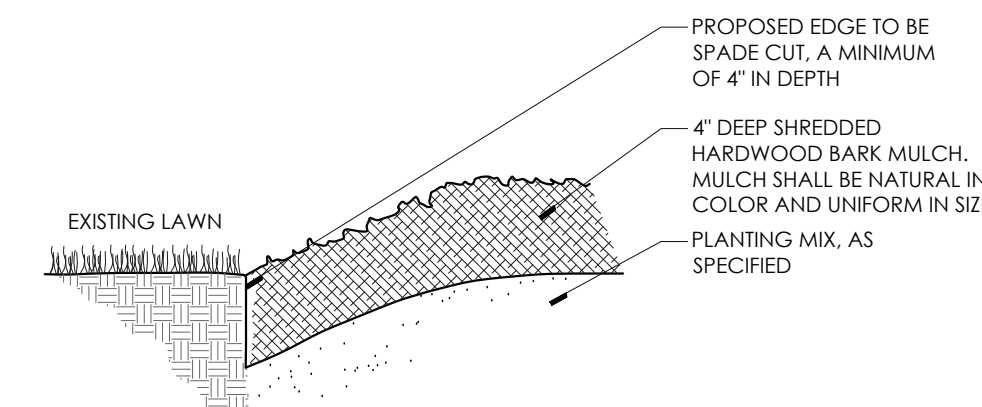
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SURVEY INFORMATION INCLUDING THE UTILITY SYSTEMS BEFORE ANY DEMOLITION OR CONSTRUCTION WORK OCCURS. ANY DISCREPANCIES WITH THE SURVEY INFORMATION SHALL BE REPORTED TO THE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
3. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND / OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CITY ENGINEER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO LACK OF SUCH NOTIFICATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
5. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
6. NO CHANGE IN CONTRACT PRICE WILL BE ALLOWED FOR ACTUAL OR CLAIMED BETWEEN EXISTING GRADE AND THOSE SHOWN ON PLANS AFTER CONTRACTOR HAS ACCEPTED EXISTING GRADES AND MOVED ON TO THE SITE.
7. ALL PROPOSED GRADES ARE TO MEET AND BLEND IN WITH THE EXISTING GRADE AT PROJECT LIMIT. PRECISE ELEVATIONS INDICATED ON THE PLANS TO BE VERIFIED IN FIELD TO AS-BUILT CONDITION.
8. ALL GRADING AND PLACEMENT OF DRAINAGE STRUCTURES TO BE SUPERVISED IN THE FIELD BY THE OWNER'S REPRESENTATIVE.
9. INSTALL 4" DEPTH TOPSOIL OVER ALL DISTURBED LAWN AREAS.
10. SEED ALL PROPOSED OR DISTURBED LAWN AREAS.



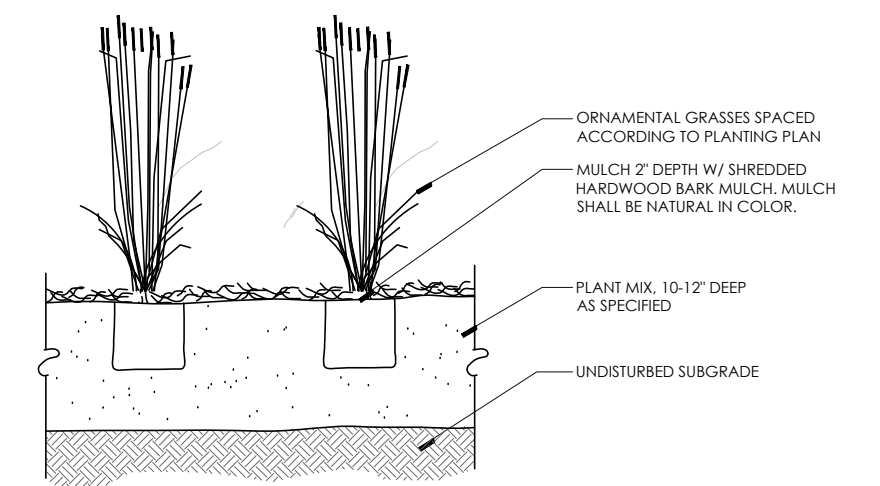
COBBLESTONE MULCH DETAIL NIS



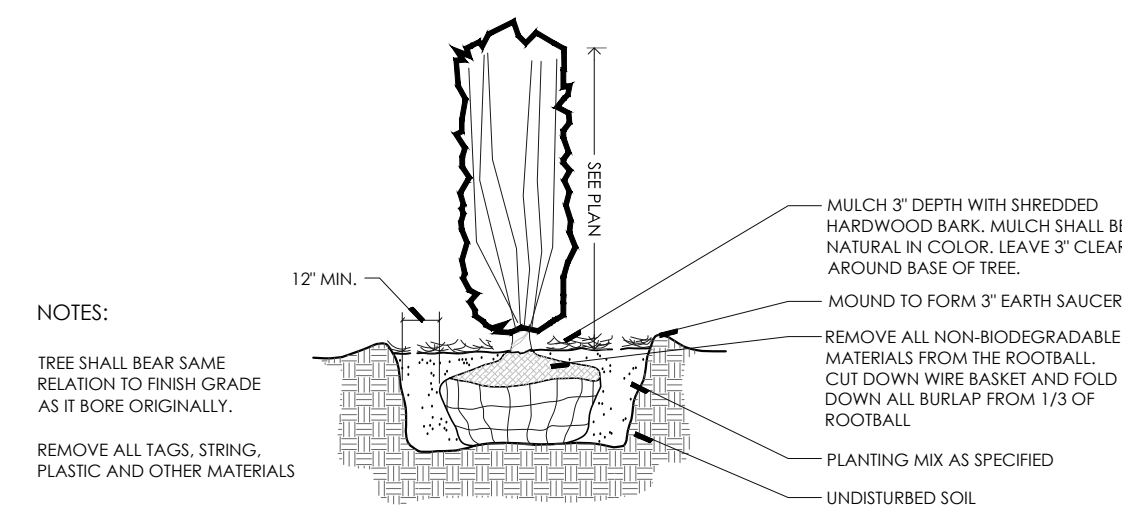
METAL EDGING DETAIL NIS



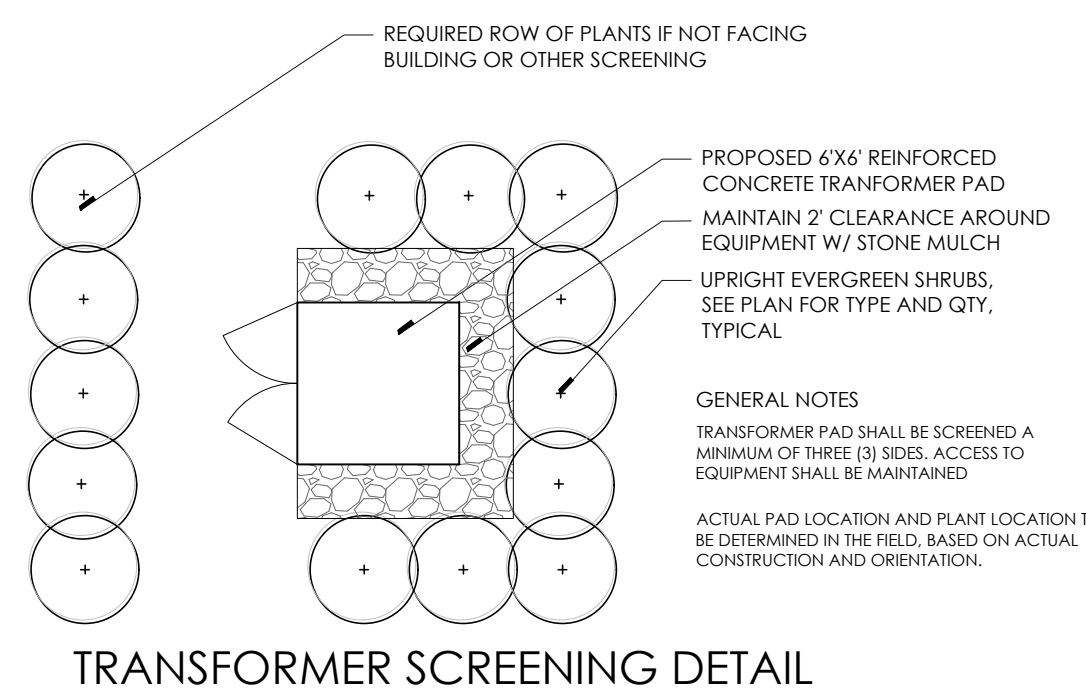
SPADE CUT EDGE DETAIL NIS



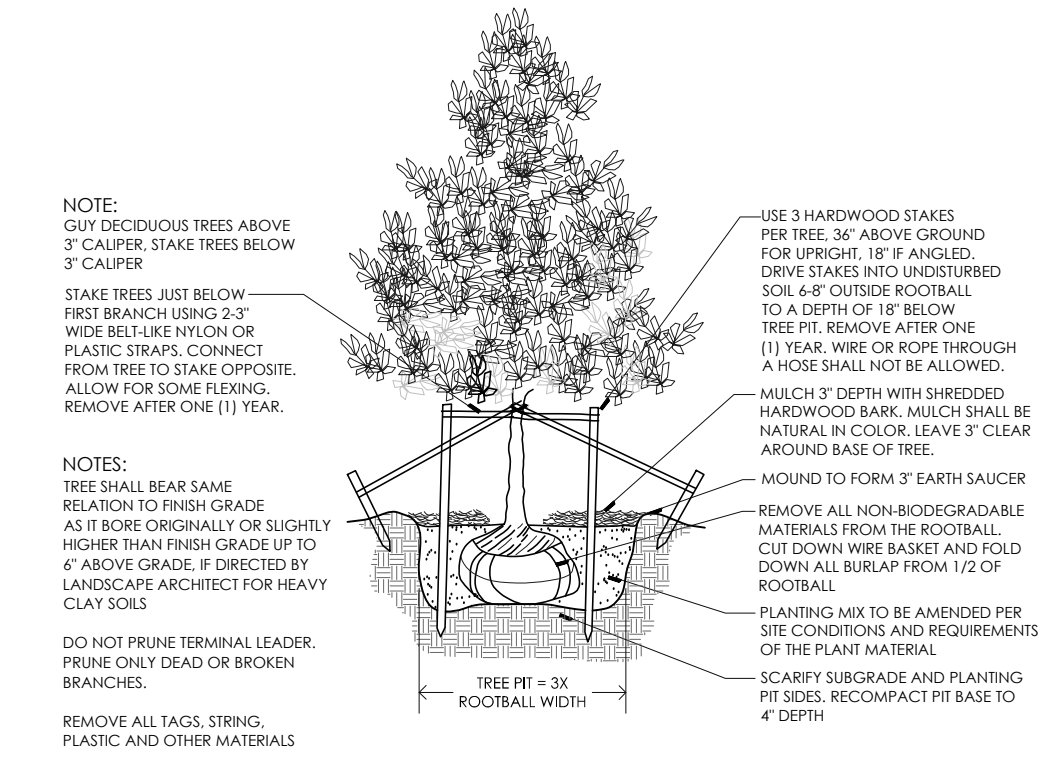
ORNAMENTAL GRASS PLANTING DETAIL NIS



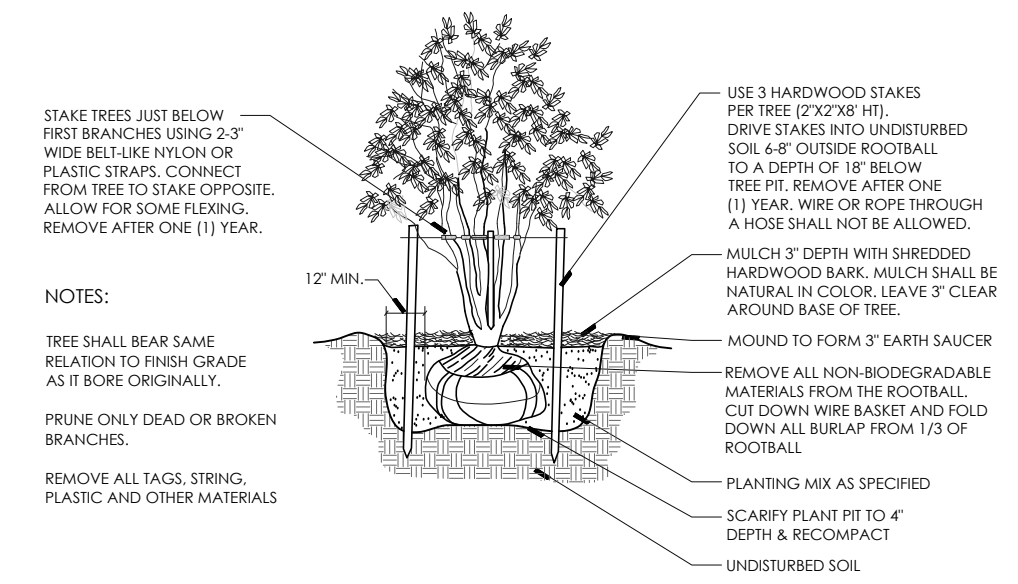
UPRIGHT EVERGREEN SHRUB PLANTING DETAIL NIS



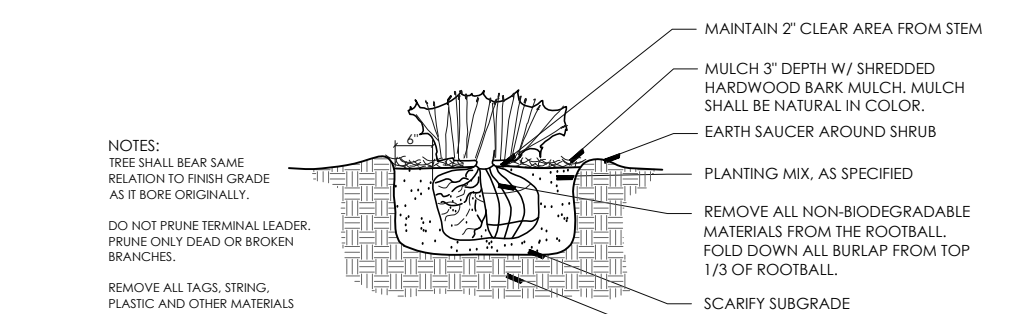
TRANSFORMER SCREENING DETAIL NIS



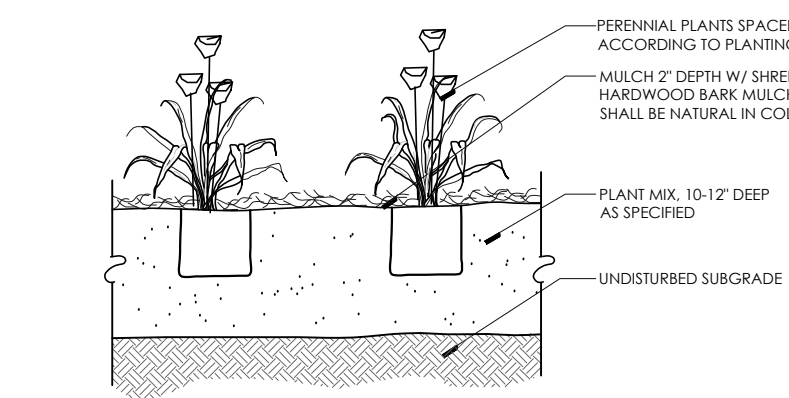
DECIDUOUS TREE PLANTING DETAIL NIS



MULTI-STEM TREE PLANTING DETAIL NIS



HEDGE PLANTING DETAIL NIS



PERENNIAL PLANTING DETAIL NIS

PLANT MIX SPECIFICATION

STANDARD PLANT MIX BACKFILL SHALL BE PROVIDED FOR ALL PROPOSED PLANTINGS. ONE CUBIC YARD OF PLANT MIX SHALL BE COMPOSED OF:
1/3 SCREENED TOPSOIL
1/3 CLEAN COARSE SAND
1/3 PEAT MOSS

PLANT MIX TYPE 'A' - TREE AND SHRUB PLANT BEDS SHALL BE AMENDED WITH COMPOSTED 16-4-12 SLOW RELEASE FERTILIZER PER MANUFACTURER'S RECOMMENDED RATES
PLANT MIX TYPE 'B' - ANNUAL, PERENNIAL AND GROUND COVER PLANT BEDS SHALL INCLUDE STANDARD MIX WITH THE AMENDMENTS AND AT THE RATES DESCRIBED BELOW:

1. 'DAIRY DOO' - OR APPROVED EQUAL APPLIED AT THE MANUFACTURER'S RECOMMENDED RATES
2. 13-13-13 FERTILIZER - APPLIED AT THE MANUFACTURER'S RECOMMENDED RATES
3. BONE MEAL APPLIED AT 5 LBS PER CUBIC YARD OF SOIL MIX



NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257

SEAL



PROJECT
Marketplace of Rochester Hills
3900 Industrial Drive

CLIENT
Grenadier Adams MP, LLC
24255 West 13 Mile
Suite 220
Bingham Farms, MI 48025

Contact: Josh Grenadier
Ph: (248) 752-1748

Part of the Southwest 1/4
of Section 30
T. 3 North, R. 11 East
City of Rochester Hills,
Oakland County, Michigan

SHEET
Landscape Notes
and Details

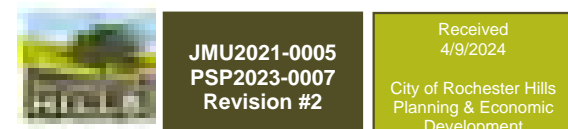


REVISIONS
02/27/24 ISSUED FOR SITE PLAN REVIEW
04/08/24 REVISED PER CITY REVIEW

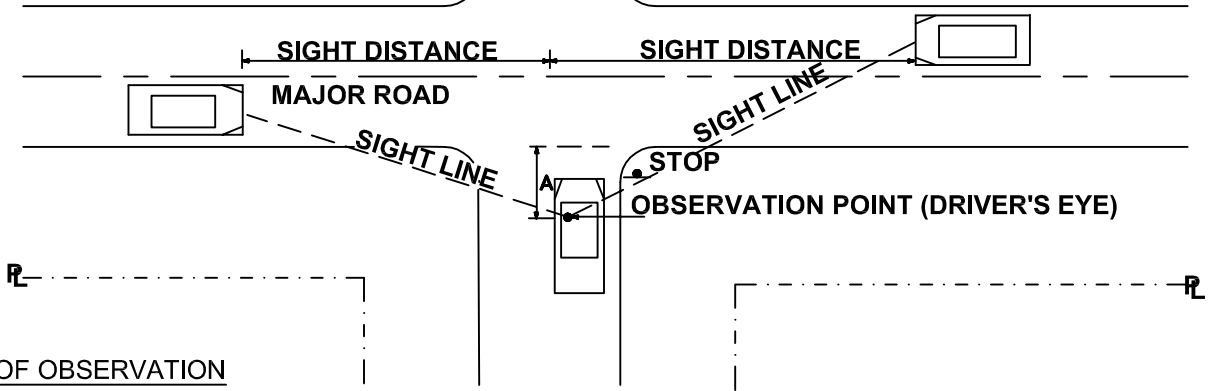
DRAWN BY:
G. Ostrowski
DESIGNED BY:
G. Ostrowski
APPROVED BY:
G. Ostrowski
DATE:
01/19/2024

SCALE: VARIES

X X 0 X X X
NFE JOB NO. M623 SHEET NO. L3



Different sight distances are required for yield or signal controlled intersections. Contact road agency's (City, R.C.O.C., or M.D.O.T.) design division for determining corner sight distance at yield or signalized approaches.



POINT OF OBSERVATION

Paved Surface:

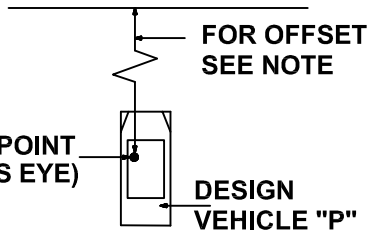
(A) Eighteen (18) feet from edge of pavement of through lane.

Gravel Surface:

(A) Eighteen (18) feet from edge of gravel road.

* For residential driveways approaching gravel or paved roads (A) is 10' from the edge of gravel/pavement.

The point of vision shall be from the height of eye, 3.5 feet above the proposed intersecting elevation to a height of object 3.5 feet above the existing or proposed road centerline and shall be continuously visible within the specified limits.



MINIMUM CORNER SIGHT DISTANCE FOR DRIVEWAYS AND STREETS AT MAJOR ROAD INTERSECTIONS FOR PASSENGER VEHICLES		
MAJOR ROAD POSTED OR 85% SPEED IN MPH	MINIMUM SIGHT DISTANCE IN FEET, BOTH DIRECTIONS	
	2 OR 3 LANE THRU ROAD IN FEET	4 OR 5 LANE THRU ROAD IN FEET
25	280	295
30	335	355
35	390	415
40	445	470
45	500	530
50	555	590
55	610	650

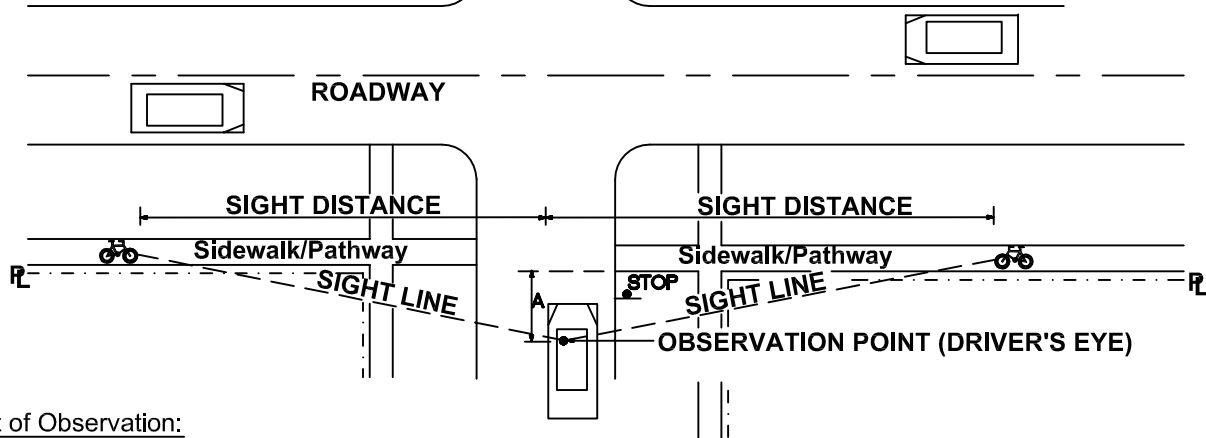
The basic prima facia speed shall be used for gravel roads, unless otherwise approved by the Engineer.

NOTES

1. Any deviation from given data requires an engineering study approved by the road agency (City, R.C.O.C., or M.D.O.T.) in accordance with the latest edition AASHTO policy on geometric design.
2. This design guide also applies to new Permit and Plat construction projects.
3. The above data is based on a left turn maneuver into the intersecting roadway as described in AASHTO. Due to the higher potential accident severity, the left turning sight distance was used to determine the corner sight distanced required. Right turn onto major roads shall have the same sight distances.
4. Existing site conditions may require an engineering study to determine sight distance.

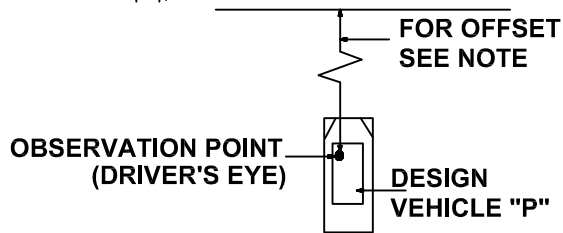
CITY OF ROCHESTER HILLS STANDARD DETAIL FOR: Sight Distance Roadways						
DRAWN BY: B. SMITH	FILE NAME: CIRC DRV	PLAN DATE: 8/28/1996	REV. 4/12/2012	REV. 3/15/2014	REV.	
APPROVED BY: PAUL SHUMEJKO, P.E., PTOE CITY TRANSPORTATION ENGINEER			NOT TO SCALE		SHEET 1 OF 2	

Different sight distances are required for yield or signal controlled intersections. Contact road agency's (City, R.C.O.C., or M.D.O.T.) design division for determining corner sight distance at yield or signalized approaches.



Point of Observation:

(A) Eighteen (18) feet from edge of pavement of sidewalk/pathway.



The point of vision shall be from the height of eye, 3.5 feet above the proposed intersecting elevation to a height of object 3.5 feet above the existing or proposed road centerline and shall be continuously visible within the specified limits.

MINIMUM CORNER SIGHT DISTANCE FOR STREETS AT INTERSECTIONS	
PATHWAY GRADE APPROACHING INTERSECTION (%)	MINIMUM SIGHT DISTANCE IN FEET, BOTH DIRECTIONS
0	135
-1	140
-2	145
-3	150
-4	160
-5	165
-6	175
-7	190
-8	205

NOTES

1. Any deviation from given data requires an engineering study approved by the road agency (City, R.C.O.C., or M.D.O.T.) in accordance with the latest edition AASHTO Guide for the Development of Bicycle Facilities.
2. This design guide also applies to new Permit and Plat construction projects.
3. The bicycle design speed used in the chart is 18 MPH.
4. Approach pathway slope greater than 8% is not allowed due to ADA compliance.
5. Existing site conditions may require an engineering study to determine sight distance.

CITY OF ROCHESTER HILLS STANDARD DETAIL FOR: Sight Distance Pathways					
DRAWN BY: B. SMITH	FILE NAME: CIRC DRV	PLAN DATE: 8/28/1996	REV. 4/12/2012	REV. 3/15/2014	REV.
APPROVED BY: PAUL SHUMEJKO, P.E., PTOE CITY TRANSPORTATION ENGINEER			NOT TO SCALE		SHEET 2 OF 2



FIRE DEPARTMENT
Sean Canto, Fire Chief

From: Vince Foisy
To: Planning Dept.
Date: May 2, 2024
Re: Marketplace of RH – Legacy Bldg & out Bldgs. - Section #30 – City Project # 22-042
Review #3

APPROVED

NOTE:
3900 Industrial Drive should be removed from the plans as these buildings have yet to be addressed, and all will appear to be addressed off Marketplace.

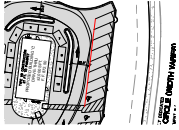
If you have any further questions, please contact me at 248.841.2709

VINCENT B. FOISY
Communication Systems Administrator

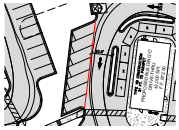
cc: File
h:\data

SITE PLAN.pdf Markup Summary

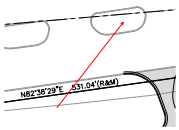
Arrow (3)



Subject: Arrow
Author: Ann Echols
Date: 4/9/2024 10:56:33 AM
Status:

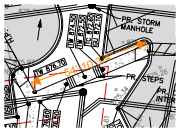


Subject: Arrow
Author: Ann Echols
Date: 4/9/2024 10:56:59 AM
Status:



Subject: Arrow
Author: Ann Echols
Date: 4/9/2024 11:34:53 AM
Status:

Building Department (3)



Subject: Building Department
Author: Mark Artinian
Date: 4/22/2024 4:01:21 PM
Status: 54'-10 3/4"



Mark Artinian 248-841-2446
ArtinianM@RochesterHills.org

Subject: Building Department
Author: Mark Artinian
Date: 4/22/2024 4:25:13 PM
Status: Mark Artinian 248-841-2446
ArtinianM@RochesterHills.org

Yes

Subject: Building Department
Author: Mark Artinian
Date: 4/22/2024 4:26:12 PM
Status: Yes

Cloud+ (5)



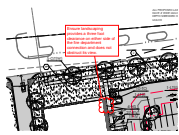
Subject: Cloud+
Author: Ann Echols
Date: 4/9/2024 10:55:00 AM
Status: provide this documentation



Subject: Cloud+
Author: Ann Echols
Date: 4/9/2024 11:11:56 AM
Status: Landscaping (except for small shrubs) shall be removed in this area. Landscaping cannot obstruct the building due to the designation of this area being in the aerial apparatus access road.

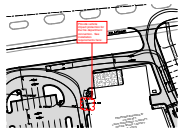


Subject: Cloud+
Author: Ann Echols
Date: 4/9/2024 11:28:24 AM
Status: ensure the landscaping is a minimum of 3 feet away from the fire hydrant and will not obstruct its view.



Subject: Cloud+
Author: Ann Echols
Date: 4/9/2024 11:30:04 AM
Status:

Ensure landscaping provides a three foot clearance on either side of the fire department connection and does not obstruct its view.



Subject: Cloud+
Author: Ann Echols
Date: 4/9/2024 11:33:28 AM
Status:

Provide vehicle impact protection for the fire department connection. See installation requirements here:

Engineering Department (2)



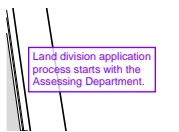
Subject: Engineering Department
Author: Jason Boughton
Date: 4/23/2024 10:44:45 AM
Status:

The applicant needs to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans to proceed with the construction plan review process.



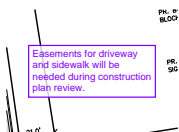
Subject: Engineering Department
Author: Jason Boughton
Date: 4/23/2024 10:51:44 AM
Status:

Engineering Legal Review (2)



Subject: Engineering Legal Review
Author: Jenny McGuckin
Date: 4/22/2024 8:40:55 AM
Status:

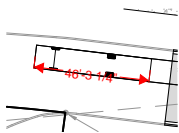
Land division application process starts with the Assessing Department.



Subject: Engineering Legal Review
Author: Jenny McGuckin
Date: 4/23/2024 8:36:00 AM
Status:

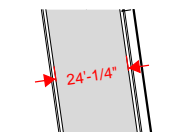
Easements for driveway and sidewalk will be needed during construction plan review.

Fire Department (7)



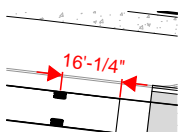
Subject: Fire Department
Author: Ann Echols
Date: 4/9/2024 10:45:53 AM
Status:

46'-3 1/4"



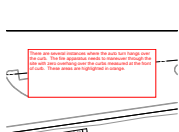
Subject: Fire Department
Author: Ann Echols
Date: 4/9/2024 10:47:58 AM
Status:

24'-1/4"



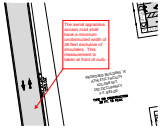
Subject: Fire Department
Author: Ann Echols
Date: 4/9/2024 11:00:51 AM
Status:

16'-1/4"



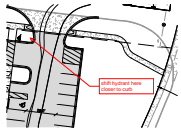
Subject: Fire Department
Author: Ann Echols
Date: 4/9/2024 11:06:18 AM
Status:

There are several instances where the auto turn hangs over the curb. The fire apparatus needs to maneuver through the site with zero overhang over the curbs measured at the front of curb. These areas are highlighted in orange.



Subject: Fire Department
Author: Ann Echols
Date: 4/16/2024 3:27:52 PM
Status:

The aerial apparatus access road shall have a minimum unobstructed width of 26 feet exclusive of shoulders. This measurement is taken at front of curb.



Subject: Fire Department
Author: Ann Echols
Date: 4/16/2024 3:28:23 PM
Status:

shift hydrant here closer to curb

Capt. Ann Echols 248-841-2701 No
 EcholsA@rochesterhills.org

Subject: Fire Department
Author: Ann Echols
Date: 4/16/2024 4:33:20 PM
Status:

Group (25)



Subject: Group
Author: macdonaldj
Date: 4/9/2024 10:10:36 AM
Status:

City of Rochester Hills Planning & Economic Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:31:04 PM
Status:

SP



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:31:08 PM
Status:

LIP



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:31:13 PM
Status:



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:32:04 PM
Status:

BP



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:34:03 PM
Status:

Received
 4/9/2024

City of Rochester Hills Planning & Economic Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:34:12 PM
Status:

Received
 4/9/2024

City of Rochester Hills Planning & Economic Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:34:15 PM
Status:

Received
4/9/2024

City of Rochester Hills Planning & Economic
Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:34:23 PM
Status:

Received
4/9/2024

City of Rochester Hills Planning & Economic
Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:34:36 PM
Status:

Received
4/9/2024

City of Rochester Hills Planning & Economic
Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:34:41 PM
Status:

Received
4/9/2024

City of Rochester Hills Planning & Economic
Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:34:45 PM
Status:

Received
4/9/2024

City of Rochester Hills Planning & Economic
Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:34:57 PM
Status:

Received
4/9/2024

City of Rochester Hills Planning & Economic
Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:35:01 PM
Status:

Received
4/9/2024

City of Rochester Hills Planning & Economic
Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:35:06 PM
Status:

Received
4/9/2024

City of Rochester Hills Planning & Economic
Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:35:13 PM
Status:

Received
4/9/2024

City of Rochester Hills Planning & Economic
Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:35:17 PM
Status:

Received
4/9/2024

City of Rochester Hills Planning & Economic
Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:35:29 PM
Status:

Received
 4/9/2024

City of Rochester Hills Planning & Economic
 Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:35:33 PM
Status:

Received
 4/9/2024

City of Rochester Hills Planning & Economic
 Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:35:56 PM
Status:

Received
 4/9/2024

City of Rochester Hills Planning & Economic
 Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:36:19 PM
Status:

Received
 4/9/2024

City of Rochester Hills Planning & Economic
 Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:36:27 PM
Status:

Received
 4/9/2024

City of Rochester Hills Planning & Economic
 Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:36:31 PM
Status:

Received
 4/9/2024

City of Rochester Hills Planning & Economic
 Development



Subject: Group
Author: C.McLeod
Date: 4/24/2024 3:36:36 PM
Status:

Received
 4/9/2024

City of Rochester Hills Planning & Economic
 Development

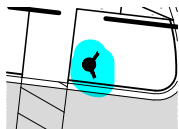


Subject: Group
Author: C.McLeod
Date: 5/1/2024 12:16:14 PM
Status:

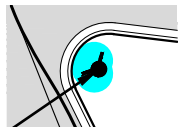
Received
 4/9/2024

City of Rochester Hills Planning & Economic
 Development

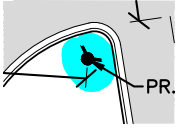
Highlight (13)



Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:46:13 AM
Status:



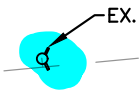
Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:46:20 AM
Status:



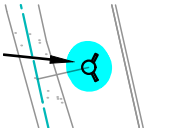
Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:49:25 AM
Status:



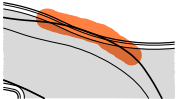
Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:49:28 AM
Status:



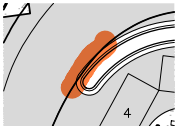
Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:55:22 AM
Status:



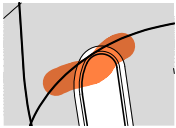
Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:55:38 AM
Status:



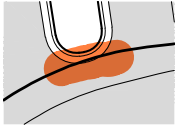
Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:57:13 AM
Status:



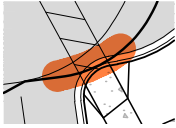
Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:57:19 AM
Status:



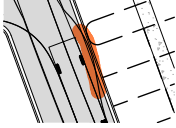
Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:57:41 AM
Status:



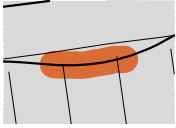
Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:57:44 AM
Status:



Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:57:49 AM
Status:



Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 10:58:00 AM
Status:



Subject: Highlight
Author: Ann Echols
Date: 4/9/2024 11:09:22 AM
Status:

Image (1)



Subject: Image
Author: Ann Echols
Date: 4/9/2024 11:34:48 AM
Status:

Jenny McGuckin - YES (1)



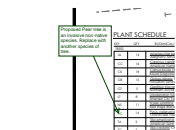
Subject: Jenny McGuckin - YES
Author: Jenny McGuckin
Date: 4/22/2024 9:07:38 AM
Status:

Natural Resources (1)



Subject: Natural Resources
Author: Matt Einheuser
Date: 4/18/2024 11:43:43 AM
Status:

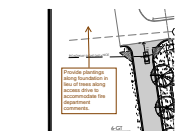
Natural Resources (1)



Subject: Natural Resources
Author: Matt Einheuser
Date: 4/18/2024 11:39:05 AM
Status:

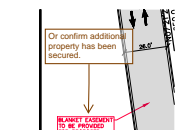
Proposed Pear tree is an invasive non-native species. Replace with another species of tree.

Planning Department (8)



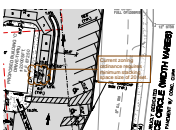
Subject: Planning Department
Author: C.McLeod
Date: 4/24/2024 3:26:42 PM
Status:

Provide plantings along foundation in lieu of trees along access drive to accommodate fire department comments.



Subject: Planning Department
Author: C.McLeod
Date: 5/1/2024 12:17:20 PM
Status:

Or confirm additional property has been secured.



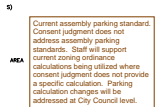
Subject: Planning Department
Author: C.McLeod
Date: 5/1/2024 12:18:13 PM
Status:

Current zoning ordinance requires minimum stacking space size of 20 feet.



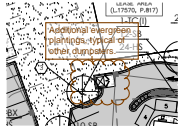
Subject: Planning Department
Author: C.McLeod
Date: 5/1/2024 12:18:56 PM
Status:

Easement will be necessary in this location for public sidewalk



Subject: Planning Department
Author: C.McLeod
Date: 5/1/2024 12:22:53 PM
Status:

Current assembly parking standard. Consent judgment does not address assembly parking standards. Staff will support current zoning ordinance calculations being utilized where consent judgment does not provide a specific calculation. Parking calculation changes will be addressed at City Council level.



Subject: Planning Department
Author: C.McLeod
Date: 5/1/2024 12:30:59 PM
Status:

Additional evergreen plantings, typical of other dumpsters.



Subject: Planning Department
Author: C.McLeod
Date: 5/1/2024 2:10:24 PM
Status:



Subject: Planning Department
Author: C.McLeod
Date: 5/1/2024 2:11:06 PM
Status:

Assessing

Yes

Traffic (1)



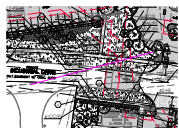
Subject: Traffic
Author: Keith
Date: 4/22/2024 11:41:07 AM
Status:

Traffic, Pathways, Sidewalks (6)



Subject: Traffic, Pathways, Sidewalks
Author: Keith
Date: 4/22/2024 11:37:41 AM
Status:

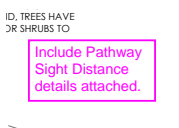
Note branches need to be maintained by being limbed up 3.5' from ground surface and/or the point of vision from the drivers eye maintained clear. (typical)



Subject: Traffic, Pathways, Sidewalks
Author: Keith
Date: 4/22/2024 11:33:59 AM
Status:



Subject: Traffic, Pathways, Sidewalks
Author: Keith
Date: 4/22/2024 11:38:58 AM
Status:



Subject: Traffic, Pathways, Sidewalks
Author: Keith
Date: 4/22/2024 11:37:49 AM
Status:

Include Pathway Sight Distance details attached.



Subject: Traffic, Pathways, Sidewalks
Author: Keith
Date: 4/22/2024 11:39:11 AM
Status:

Subject: Traffic, Pathways, Sidewalks

Author: Keith

Date: 4/22/2024 11:41:51 AM

Status:

Condition on the Pathway sightline notes and details are addressed.

Condition on the
Pathway sightline
notes and details are
addressed.

Architect
MICHAEL A. BOGGIO ASSOCIATES
30150 Telegraph Rd.
Suite 150
Birmingham, AL 35215