GENERAL NOTES

- ALL PROPOSED ROADS ARE TO BE PRIVATE. ALL ROAD PAVEMENT AND STORM DRAINAGE SHALL BE IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS, AND THE ROAD COMMISSION FOR OAKLAND COUNTY (RCOC) WHERE APPLICABLE, WITH CONCRETE CURB AND GUTTER ALL ROADS SHALL BE 27 FT. WIDE, BACK-TO-BACK OF CURBS. THE TOTAL LENGTH OF PROPOSED ROADS (MEASURED CENTERLINE-TO-CENTERLINE) IS 1,235 LF
- THE STORM DRAINAGE SYSTEM WILL INCLUDE STORM SEWER PIPES AND CATCH BASINS DISCHARGING TO A NORTHERN AND SOUTHERN DETENTION BASIN. THE DESIGN OF THE STORM WATER SYSTEM WILL MEET THE CITY OF ROCHESTER HILLS STANDARDS WITH THE DETENTION SYSTEMS DESIGNED TO PROVIDE FOR 10-YEAR STORM LEVELS. BOTH DETENTION BASINS WILL OUTLET TO AN EXISTING COUNTY DRAIN THROUGH A CONTROLLED OUTLET
- 3. SANITARY SEWER DISPOSAL WILL BE THROUGH A PROPOSED SEWERAGE COLLECTION SYSTEM.
- POTABLE WATER SUPPLY SOURCE WILL BE FROM EXISTING CITY OF ROCHESTER HILLS WATER SUPPLY SYSTEM. THE PROPOSED WATER DISTRIBUTION SYSTEM SERVICING THE SITE WILL BE CONNECTED TO AN EXISTING 16" WATER MAIN THAT RUNS THROUGH PHASE 1 OF THE SITE. THE EXISTING WATER MAIN WILL REMAIN IN PLACE, AS IS.
- 5. UNDERGROUND GAS, ELECTRIC, TELEPHONE, AND CABLE TV LINES WILL BE LOCATED IN 10 FT, WIDE EASEMENTS ALONG PROPOSED ROADWAYS AND REAR YARDS.
- 6. OPEN SPACE AREAS ARE PRIVATE AND FOR THE ENJOYMENT OF NOTTINGHAM WOODS RESIDENTS
- 7. MAXIMUM 20 FT. WIDE EASEMENTS WILL BE PROVIDED FOR STORM SEWERS, SANITARY SEWERS AND WATER MAINS. EASEMENTS WILL ALSO BE PROVIDED FOR ALL DRAINAGE SWALES AND STORM WATER DETENTION PONDS. DETAILED EASEMENT INFORMATION WILL BE INCLUDED IN THE FINAL
- 8. FIRE LANES TO BE PROVIDED ON INTERIOR STREETS AND PARKING TO BE ALLOWED ON ONE SIDE
- 9. THERE ARE NO REGULATED WETLAND AREAS ON SITE.
- SIDEWALKS ARE PROPOSED ON BOTH SIDES OF THE ROADS. SIDEWALKS WILL BE DELINEATED IN THE DETAILED ENGINEERING PLAN PROCESS.
- 11. ALL DIMENSIONS ARE TO BACK OF CURB, IF APPLICABLE

INLET BASIN

END SECTION

ROOF/DOWN SPOUT

STORM CLEAN OUT

SANITARY MANHOLE

SANITARY RISER

SANITARY CLEAN OUT

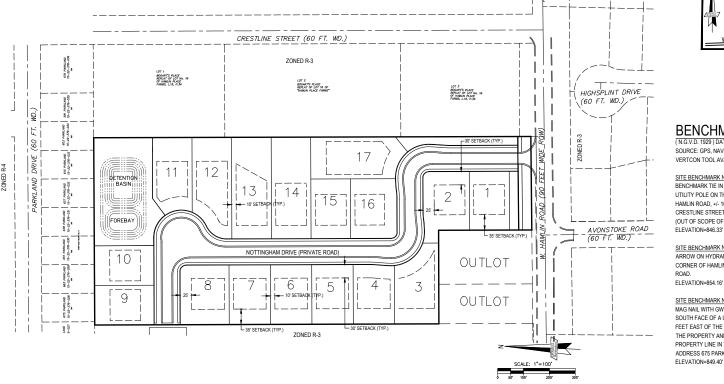
SANITARY PUMP STATION

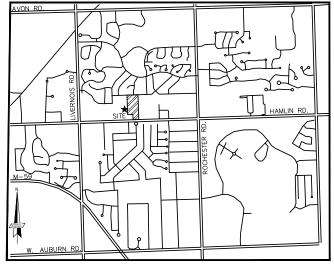
OVERFLOW/OUTLET STRUCTURE

- 12. ALL PROPOSED WATER MAINS SHALL BE CENTERED IN A 20' EASEMENT
- 13. SEWER MAIN AND MANHOLE LOCATIONS ARE CONCEPTUAL. FINAL LOCATIONS TO BE DETERMINED
- 14. PRIOR TO CONSTRUCTION PERMIT APPROVAL, OWNER TO COMPLETE SOIL BORINGS TO DETERMINE WATER TABLE ELEVATION AND SOIL PERCOLAIDN RATES. DETERTION BASIN BOTTOM ELEVATION TO BE CONSTRUCTED BELOW THE OUTLET INVERT, ALLOWING FOR INFILITATION BASED ON RESULTS OF SOIL ANALYSIS.
- 15. A PRIVATE ROAD EASEMENT WILL BE RECORDED AS PART OF THE CONDOMINIUM DOCUMENTS AND
- 16. FINAL GRADING OF LOTS TO MEET CITY OF ROCHESTER HILLS AND MICHIGAN BUILDING CODE (2009) STANDARD REQUIREMENTS.
- 17. FINAL CONFIGURATION OF THE TREE PRESERVATION AREA MAY CHANGE BASED ON DETERMINATION OF FINAL REQUIREMENTS FOR DETENTION

NOTTINGHAM WOODS

VANGUARD COMPANIES PRELIMINARY SITE PLAN **ROCHESTER HILLS** OAKLAND COUNTY, MI





LOCATION MAP (1"=2,000')

BENCHMARK DATA

SOURCE: GPS. NAVD 88 AND CONVERTED USING

SITE BENCHMARK NO. 1 BENCHMARK TIE IN NORTH FACE OF A UTILITY POLE ON THE SOUTH SIDE OF HAMI IN ROAD +/- 160 FEFT WEST OF (OUT OF SCOPE OF DRAWING

SITE BENCHMARK NO. 2 ARROW ON HYDRANT AT THE SOUTHWEST CORNER OF HAMLIN ROAD AND AVONSTOKE ELEVATION=854.16

SITE BENCHMARK NO. 3 MAG NAIL WITH GW TAG #80004 IN THE SOUTH FACE OF A UTILITY POLE, +/- 70 FEET EAST OF THE NORTHWEST CORNER OF PROPERTY LINE IN THE REAR YARD OF

· x· x· x· x· x· x· x ·

ZONING INFORMATION

PROPOSED USE: R-3 ZONING, SINGLE FAMILY RESIDENTIAL EXISTING USE: UNDEVELOPED FARMLAND/WOODLAND

EXISTING ZONING: R-3 RESIDENTIAL

TOTAL UNITS = 17

SETBACKS: FRONT = 30' SIDE (EACH) = 10' SIDE (TOTAL) = 20' SIDE (ABUTTING STREET) = 25 REAR = 35'

	REQUIRED	PROPOSED
MAXIMUM LOT COVERAGE	30%	30%
AVG. MIN. LOT WIDTH	90'	92.6'
LOT SIZE VARIATION OPTION)		
MIN. LOT WIDTH	81'	81'
LOT SIZE VARIATION OPTION)		
AVG. MIN LOT AREA	12,000 SF.	13,737
LOT SIZE VARIATION OPTION)		
MIN. LOT AREA	10,800 SF.	12,076 SF.
LOT SIZE VARIATION OPTION)		
MAXIMUM STORIES	2	2
MAXIMUM BUILDING HEIGHT	30'	30'
MINIMUM FLOOR AREA	1,200 SF.	2,000 SF.

EXISTING PARCEL AREA = 8.673 ACRES RESIDENTIAL DENSITY = 1.96 DWELLINGS/ACRE



Surveyors Planners Landscape Architects

Environmental Specialists

6303 26 Mile Road

Suite 100

Washington, MI 48094

p (586) 781-8950

f (586) 781-8951

www.giffelswebster.com

P.M.

Executive:







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VANGUARD COMPANIES

p (248) 650-6206

COVER

02 EXISTING CONDITIONS PRELIMINARY SITE PLAN NOTTINGHAM WOODS

> ROCHESTER HILLS MICHIGAN

> > Oakland County

Date:	7/6/15
Scale:	1" = 100'
Sheet:	01
Project:	18701.00

GENERAL LEGEND	EXISTING	PROPOSED
STORM SEWER	STM	
SANITARY SEWER	SAN	
WATER MAIN	w	
GAS MAIN	G	———— G ————
UNDERGROUND ELECTRIC LINES	———— UGE ————	UGE
UNDERGROUND TELEPHONE LINES	UGT	UGT
UNDERGROUND CABLE TELEVISION LINES	CTV	CTV
OVERHEAD LINES	OH	
PUBLIC LIGHTING LINES	PLD	
STEAM LINES	STEAM	
FENCE LINE	x	x
PROJECT PHASE LIMIT LINE		
CONCRETE CURB AND GUTTER (STANDARD)		
CONCRETE CURB AND GUTTER (REVERSED)		
THICKENED SLAB CURB/WALK		
STORM MANHOLE	Θ	•
CATCH BASIN	□⊕●	Ė
VARD RASIN		_

FIRE HYDRANT	Ø		•
STOP BOX AND VALVE	\$ \$		•
FDC CONNECTION	>		>
WATER METER	•		
POST INDICATOR VALVE	•		
WELL HEAD	•		
IRRIGATION CONTROL BOX	W		
LAWN IRRIGATION HEAD	+		
GAS VALVE	貸		
GAS MANHOLE	©		
GAS RISER	▲		
GAS METER	@		
ELECTRIC MANHOLE	(E)		
ELECTRIC RISER	▲		
ELECTRIC METER	©		
ELECTRIC TRANSFORMER	E		
LIGHT POLE	Φ	\circ	₽
TELEPHONE MANHOLE	•		
TELEPHONE RISER	▲		
TELEPHONE CROSS BOX	100		
CABLE RISER	▲		
TRAFFIC CONTROL BOX	100		
AIR CONDITIONER	100		
PUBLIC LIGHTING MANHOLE	©		
UTILITY POLE	0		

GUY WIRE ANCHOR	
UTILITY FLAG	
SIGN POST	
GUARD POST/BOLLARD	
FENCE POST	
PAY PHONE	
PARKING METER	
RESIDENTIAL MAILBOX	
U.S. MAILBOX	
BLDG CORNER (FIELD LOCATED)	
TREE	
WETLAND FLAG	
SPOT ELEVATION	
SOIL BORING	
ASPH.	Α
CONC.	С
A.C.	Α
G.P.	G
C.L.F.	С
D.L.	D
F.F.	F
O.H.	0
F.I.	F
S.I.	S
F.I.P.	F
M D	

XXX.XX ASPHALT CONCRETE AIR CONDITIONER GUARD POST CHAIN-LINK FENCE DOOR LEDGE FINISHED ELOOR OVERHANG FOUND IRON SET IRON FOUND IRON PIPE MEASURED RECORD FOUND MONUMENT

EXISTING

SET NAIL

ABANDON UTILITY PIPE CUT AND BULKHEAD UTILITY PIPE REMOVE BUILDING REMOVE CONCRETE PAVEMENT REMOVE ASPHALT PAVEMENT REMOVE SIDEWALK PAVING AND GRADING HATCH LEGEND COMPACTED SAND BACKFILL (CSB)

CONCRETE PAVEMENT

DEMOLITION LEGEND

REMOVE UTILITY STRUCTURE REMOVE UTILITY PIPE

AGGREGATE MATERIAL ASPHALT PAVEMENT

CITY OF ROCHESTER HILLS FILE #15-004 NOT TO BE USED AS CONSTRUCTION DRAWINGS

SHEET INDEX 01 COVER

03 SITE PLAN

04 UTILITY CALCULATIONS

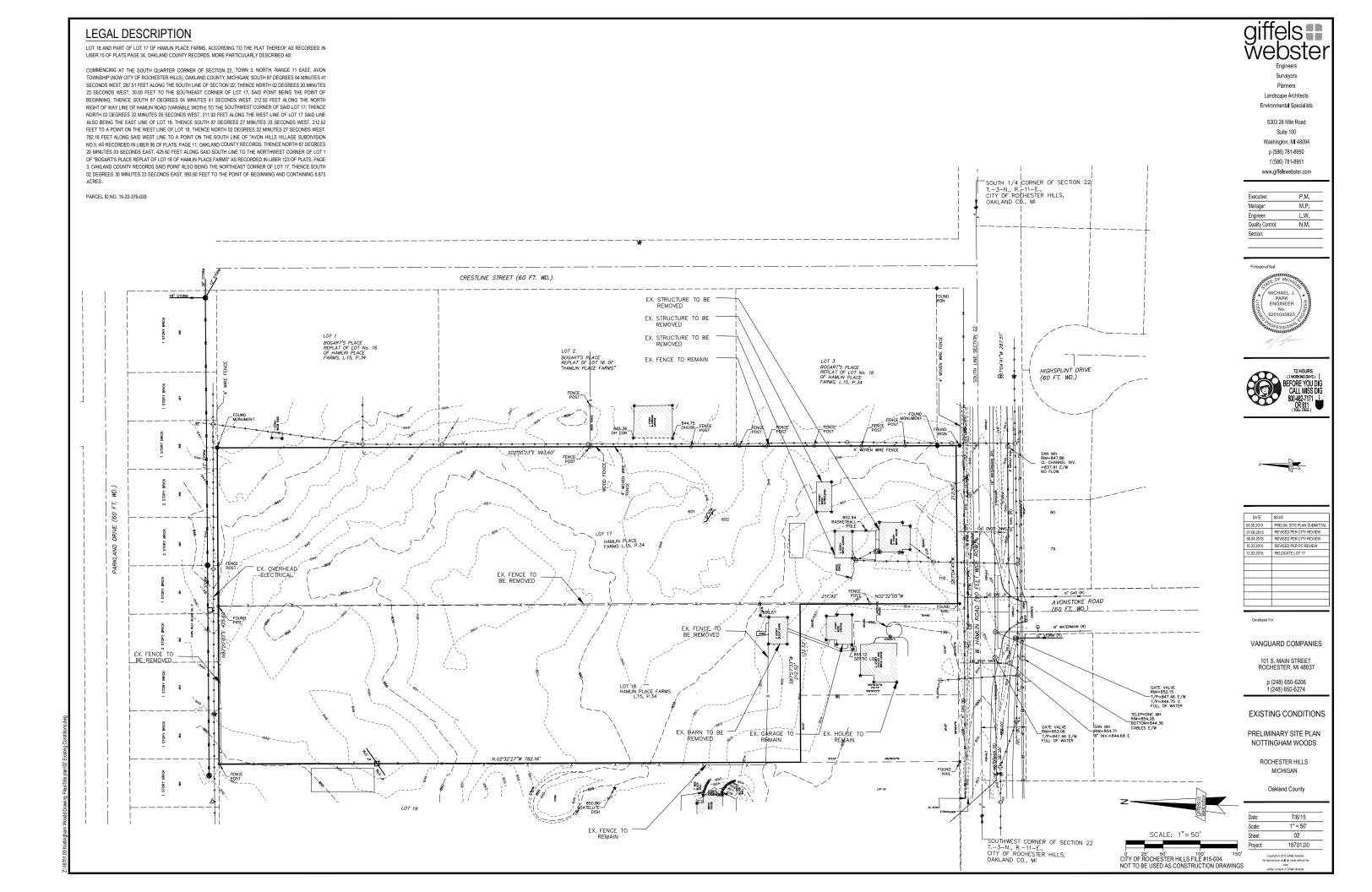
06 TREE TABLE 1 OF 2

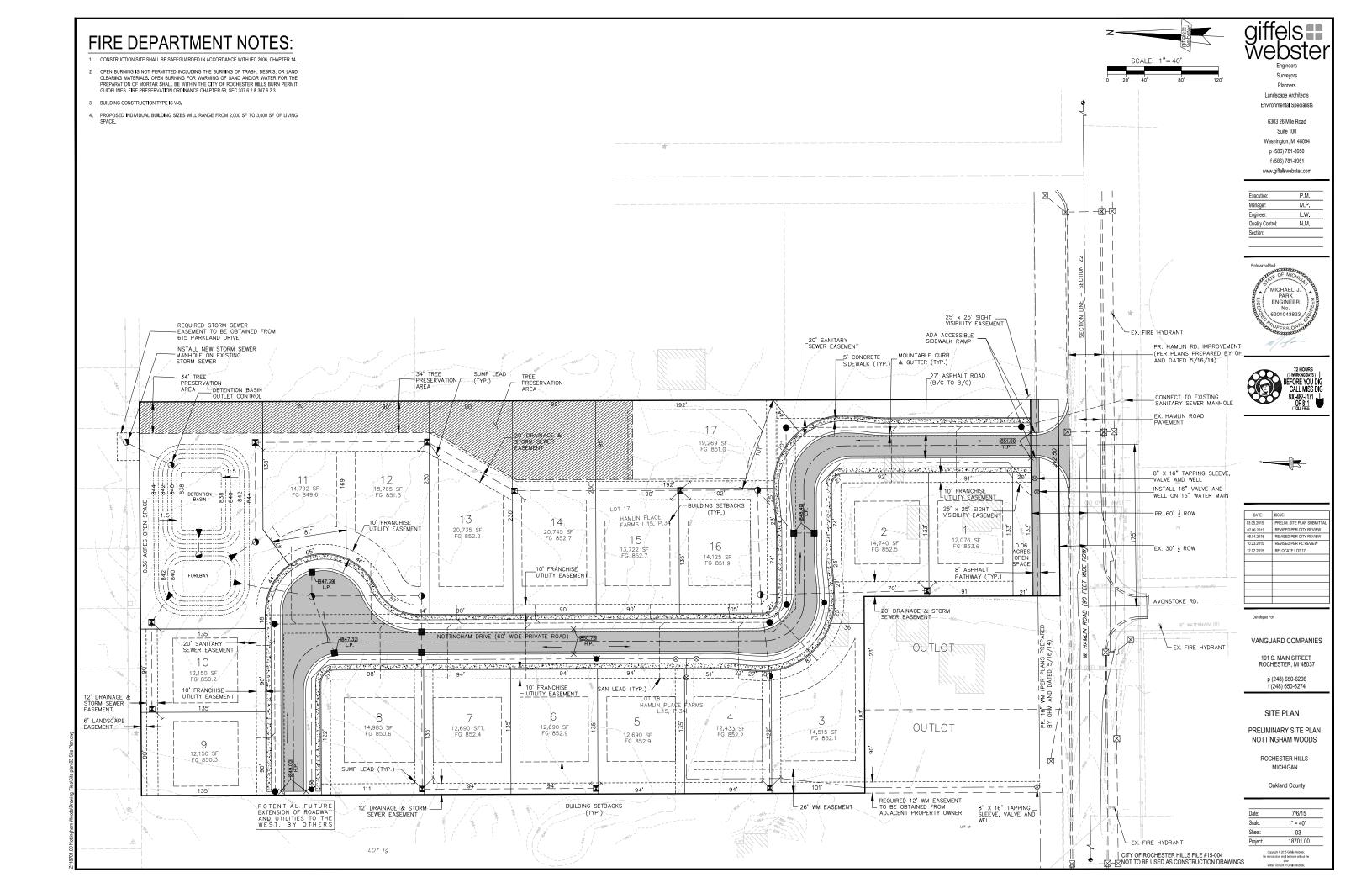
07 TREE TABLE 2 OF 2

LA-01 LANDSCAPE PLAN

LA-02 LANDSCAPE DETAILS

05 TREE PRESERVATION PLAN





DETENTION BASIN CALCULATIONS

giffels## webster

Detention Design Project Name Project Number

Lydia Wakeland November 24, 2015 Oakland County

Weighted "C" Calculation

	Area (acres)	С	Area x C	
Water sufaces	0.00	1.00	0.00	
Roofs	1.45	0.95	1.38	
Asphalt or concrete pavement	1.17	0.95	1.11	
Semi-pervious lawns (HSG A)	5.38	0.18	0.97	*Based on Sandy Loam Soil Types (HSG A) with ski
Total	8.00		3.46	

x 8.00 acres

= 0.20 cfs/acre

required Storage volume										
	Qo=_	Q _a			1.6)				
	Q0	AxC		8.00	acres	х	0.43			
	=	0.46	cfs per acres i	impervious						
	T ₂₅ =	-25			8,063 Qo					
	=	-25	+		8,063 0.46					
	-	107	minutes							
	V _{SS=} _	12,900	x	T ₂₅		40	x	Q ₀ .	x	T ₂₅
		Tas	+	25						-
	_	12,900	x	107		40	x	0.46	x	107
		107	+	25		-10	^	0.40	^	107
	=	8,476	cubic feet per	acre imprev	ious					
	V ₁₂₆ =		x	А	x	С				
		V ₁₂₅								
	=	8,476	x	8.00	x	0.43				
	=	29,305	cubic feet							

The required	infiltration volume is one half inch of rain	n in a 24-ho	our storm.						
	Existing Undisturbed Tree Area =	23,340	square feet						
	Credit Infiltration Volume =	1"	x	Area					
		1"	x	23,340					
		1,867	cubic feet						
	V _t =	1,815	x	Α	x	С		Credit	
		1,815	x	8.00	x	0.43	-	1,867	
	=	4,408	cubic feet						

The forebay will detain the first flush volume, or first h	alf inch of r	ain in a 24-hour	storm.			
V _{ef} =	1,815	х	Α	x	С	
=	1,815	x	8.00	x	0.43	
=	6,275	cubic feet				

		In	filtration Bas	in		Forebay			Detention P	ond
		Area	Incremental	Cumulative	Area	Incremental	Cumulative	Area	Incremental	Cumulative
	Elevation	(sft)	Volume (cft)	Volume (cft)	(sft)	Volume (cft)	Volume (cft)	(sft)	Volume (cft)	Volume (cft)
				7,657			6,684			43,962
			0	[0			0	
Freeboard Elevation	844			7,657			6,684	18115		43,962
			0	[0			16,839	
High Water of Pond	843			7,657			6,684	15594		27,123
			0	[0			14,053	
Top of Forebay Storage	842			7,657	4468		6,684	8099		13,070
			0	[3,878			7,290	
	841			7,657	3317		2,806	6510		5,780
			0			2,806			5,780	
Bottom of Detention Pond/	840	5079		7,657	2324		0	5079		0
Bottom of Forebay			4,427	[0			0	
	839	3805		3,230			0			0
			3,230	l l		. 0			0	
Bottom of Infiltration Storage	838	2688		0			0			0
						-				
Infiltration Vol. Provided=	7,657	cft	Forebay \	/ol. Provided=	6,684	cft	Total \	/ol. Provided=	41,464	cft
Infiltration Vol. Required=	4,408	cft	Forebay V	ol. Required=	6,275	cft	Total V	ol. Required=	29,305	cft

NOTES:

SOIL BORINGS, TO DETERMINE SOIL PERCOLATION RATES, WILL BE COMPLETED DURING PREPARATION OF CONSTRUCTION DRAWINGS FOR PERMITTING. IF INSUFFICIENT PERCOLATION RATES ARE INDICATED, THEN DRY WELLS WILL BE REQUIRED FOR PERMITTING AS AN ALTERNATIVE MEANS TO OBTAIN A SUFFICIENT RATE OF INFILTRATION.

SANITARY SEWER CALCULATIONS

SANITARY SEWER DEMAI	- In				
ANITART SEWER DEMAI	ND				
Number of Lots =	17				
Population = N	lumber of	Lots x 3.5			
=	17	lots	х	3.5	people per lot
=	60	people			
Average Flow =	Ī	Population x Po	er Capita Capa	city	
	Gallo	ns per Cubic F	oot x Seconds	per Day	
=	59.50	people	x	100	gpcpd
	7.48	gal/cft	х	86,400	sec/day
=	0.01	CFS	or	4.13	GPM
Peaking Factor =	4.00				
Peak Flow = A	werage Flo	ow x Peaking F	actor		
=	0.01	people	x	4.00	
=	0.04	CFS	or	16.53	GPM
STING PIPE CAPACITY					
Min. Pipe Slope =	0.40	%			
Pipe Diameter =	8	Inch			
N =	0.013	•			
Pipe Capacity (Hazen Williams) =	0.76	CFS			

		•		FF-SITE TO	
Number of Lots =	21				
Population = N	lumber of	Lots x 3.5			
=	21	lots	x	3.5	people per lot
=	74	people			
Average Flow =	<u> </u>	Population x P	er Capita Capa	ıcity	
	Gallo	ns per Cubic F	oot x Seconds	per Day	
=	73.50	people	x	100	gpcpd
-	7.48	gal/cft	х	86,400	sec/day
=	0.01	CFS	or	5.10	GPM
Peaking Factor =	4.00				
Peak Flow = A	werage Flo	ow x Peaking I	=actor		
=	0.01	people	x	4.00	
=	0.05	CFS	or	20.42	GPM
XISTING PIPE CAPACITY					
Min. Pipe Slope =	0.40	%			
Pipe Diameter =	8	Inch			
N =	0.013				
Pipe Capacity (Hazen Williams) =	0.76	CFS			

WATER FIRE FLOW CALCULATIONS

Design Criteria	
Required Fire Flow	1,500 GPM with a residual pressure of 20 psi
Maximum Day Flow	17 REUs x 1,000 gallons/day/REU = 17,000 gallons/day = 12 gpm
Hazen & Williams	C = 120

(1,500 GPM fire suppression + 12 gallon/minute maximum day demand)

Estimate Residual Pressu	re at Fire Hydrant with 1,512 GPM	Demand (1,500 GPM Fire Suppression + 12 GPM Maximu	ım Day Demand)
Residual Flow, Qr (GPM)	Static Pressure @ Test Hydrant	Calculated Residual Pressure @ 1,512 gpm	Residual Pressure at Test Hydrant
Q _r (gpm)	P _s (psi)	P _{r1512} (psi)	P _r (psi)
1962	57	1,512 = $Q_r \times ((P_s - P_{r1512})/(P_s - P_r))^{0.54}$ $P_{r1512} = 49 \text{ psi}$	44

H _f	L (ft.)	С	Q (gpm)	D (in.)
$H_f = 0.002083 \text{ L } (100/\text{C})^{1.85} \text{ x } (Q^{1.85}/d^{4/8655})$ $H_f = 50.3 \text{ ft} = 21.8 \text{ psi}$	1,100	120	1,512	8



Surveyors Planners

Landscape Architects Environmental Specialists

6303 26 Mile Road Suite 100 Washington, MI 48094

p (586) 781-8950 f (586) 781-8951

www.giffelswebster.com

M.P.
L.W.
N.M.







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10.23.2015	REVISED PER PC REVIEW
12.02.2015	RELOCATE LOT 17

Developed For:

VANGUARD COMPANIES

101 S. MAIN STREET ROCHESTER, MI 48037

p (248) 650-6206 f (248) 650-6274

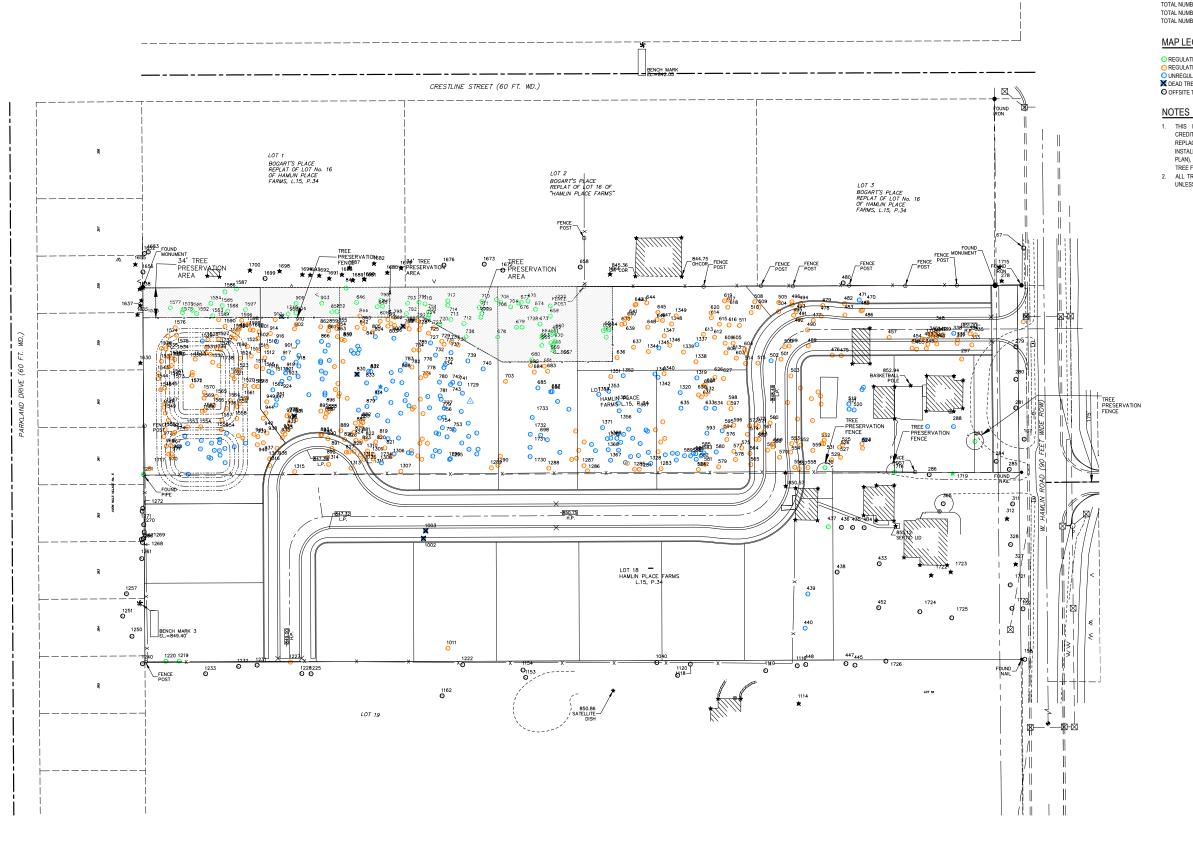
UTILITY CALCULATIONS

PRELIMINARY SITE PLAN NOTTINGHAM WOODS

> ROCHESTER HILLS MICHIGAN

Oakland County

Date:	7/6/15
Scale:	1" = 100'
Sheet:	04
Project:	18701.00



TREE IMPACT CALCULATIONS: NOTTINGHAM WOODS

TOTAL	NUMBER OF TREES SURVEYED:
TOTAL	NUMBER OF REGULATED TREES:
TOTAL	NUMBER OF REGULATED TREES PRESERVED
TOTAL	NUMBER OF REGULATED TREES REMOVED:
TOTAL	NUMBER OF UNREGULATED:
TOTAL	NUMBER OF TREES OFFSITE:

MAP LEGEND

© REGULATED TREES - TO BE PRESERVED
© REGULATED TREES - TO BE REMOVED
© UNREGULATED TREES
W DEAD TREES - TO BE REMOVED
© OFFSITE TREES

- 1. THIS PROJECT WILL REQUIRE TREE REPLACEMENT CREDITS FOR THE REMOVAL OF REGULATED TREES. THE REPLACEMENT CREDITS WILL BE ACCOUNTED FOR BY THE INSTALLATION OF NEW TREES (PER THE LANDSCAPE PLAN), WITH THE REMAINDER TO BE PAID INTO THE CITY TREE FUND AT \$200 PER TREE.

 2. ALL TREES ARE PRESUMED TO BE IN GOOD CONDITION UNLESS OTHERWISE NOTED.



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> 6303 26 Mile Road Suite 100

Washington, MI 48094 p (586) 781-8950

f (586) 781-8951 www.giffelswebster.com

Executive:	P.M.
Manager:	M.P.
Engineer:	L.W.
Quality Control:	N.M.







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101 S. MAIN STREET ROCHESTER, MI 48037

p (248) 650-6206 f (248) 650-6274

TREE PRESERVATION PLAN

PRELIMINARY SITE PLAN NOTTINGHAM WOODS

> ROCHESTER HILLS MICHIGAN

Oakland County



CITY OF ROCHESTER HILLS FILE #15-004 NOT TO BE USED AS CONSTRUCTION DRAWINGS

18701.00

7/6/15

POINT	TREE TAG	SPECIES	REGULATION	REMOVAL PLAN	POINT NUMBER	TREE TAG	SPECIES	REGULATION	REMOVAL PLAN	POINT TREE NUMBER TAG	SPECIES	REGULATION	REMOVAL PLAN	POINT NUMBER	TREE SPECIES	REGULATION	
66 67	NO TAG (OFFSITE) 1	28" HICKORY	REGULATED	TO BE REMOVED TO BE PRESERVED	529 530	76519	10" DOGWOOD	REGULATED REGULATED	TO BE PRESERVED	654 78433 658 80270		REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	773 774	78546 12" ASPEN 78544 14" POPLAR	UNREGULATED REGULATED	TO BE REMOVED TO BE PRESERVE
107	NO TAG (OFFSITE) 1		UNREGULATED	1	531		22" POPLAR	REGULATED	TO BE REMOVED	659 78494		REGULATED	TO BE PRESERVED	775	78545 14" COTTONWOOD	UNREGULATED	
158		15" HICKORY		TO BE PRESERVED	532	76514		REGULATED	TO BE REMOVED		8" DOGWOOD	REGULATED	TO BE PRESERVED	776	78543 8" COTTONWOOD	REGULATED	TO BE PRESERVE
159		22" HICKORY	REGULATED	TO BE PRESERVED	533		24" POPLAR				9" WALNUT	REGULATED	TO BE PRESERVED	777	78551 18" COTTONWOOD	REGULATED	TO BE REMOVED
278	NO TAG (OFFSITE) 1		UNREGULATED	TO BE PRESERVED	534		L5" BOX ELDER	UNREGULATED	TO BE REMOVED	662 78488		REGULATED	TO BE PRESERVED	778	78542 9" MAPLE	REGULATED	TO BE PRESERVE
279	76412	28" HICKORY	REGULATED	1	535	76510	5" ELM	UNREGULATED	TO BE REMOVED	663 78491	6" ELM	REGULATED	TO BE PRESERVED	779	78550 10" COTTONWOOD	REGULATED	TO BE PRESERVE
280		18" MAPLE	REGULATED	1	543	76509			TO BE REMOVED		7" WALNUT	REGULATED	TO BE PRESERVED	780	78538 7" MAPLE	REGULATED	TO BE PRESERVE
281		30" MAPLE	REGULATED	1	544		3/7" DOGWOOD		TO BE REMOVED		12" WALNUT	REGULATED	TO BE PRESERVED	781	78549 8" ELM	REGULATED	TO BE PRESERVE
283		20" MAPLE	REGULATED	TO BE PRESERVED	545		10/6" ELM	UNREGULATED			7" WALNUT	REGULATED	TO BE PRESERVED	782	79096 12" POPLAR	REGULATED	TO BE PRESERVE
284		36" MAPLE 5" ORNAMENTAL	REGULATED	1	546	76506 8		UNREGULATED			12" WALNUT	REGULATED	TO BE PRESERVED	783	79101 6" CHERRY	REGULATED REGULATED	TO BE PRESERVE
285 286		48" HICKORY	UNREGULATED REGULATED	TO BE PRESERVED	547 548		5" CHERRY LO" WALNUT	UNREGULATED	TO BE REMOVED TO BE REMOVED	669 78485	8" WALNUT	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	784 785	79095 14" POPLAR 79094 8" BIRCH	REGULATED	TO BE PRESERVE
287		33" MAPLE		TO BE REMOVED	550	76523				670 78486		REGULATED	TO BE PRESERVED	786	79067 18" COTTONWOOD	REGULATED	TO BE PRESERVE
288		38" MAPLE	REGULATED	TO BE PRESERVED	551	76525					12" DOGWOOD	REGULATED	TO BE PRESERVED	787	79079 8" POPLAR	REGULATED	TO BE PRESERVE
297		20" MAPLE	REGULATED	TO BE PRESERVED	552	76524		REGULATED	TO BE REMOVED	674 78496		REGULATED	TO BE PRESERVED	788	DEAD 10" DEAD	UNREGULATED	TO BE REMOVED
311	76407	28" HICKORY	REGULATED	TO BE PRESERVED	553	76526		REGULATED	TO BE REMOVED	675 78492	12" CHERRY	REGULATED	TO BE PRESERVED	789	79078 13" COTTONWOOD	REGULATED	TO BE PRESERVE
312	76406 :	15" SPRUCE	REGULATED	TO BE PRESERVED	554	76527	9" ELM	REGULATED	TO BE REMOVED	676 78499	12" MAPLE	REGULATED	TO BE PRESERVED	790	79087 13" POPLAR	REGULATED	TO BE PRESERVI
327		13" PINE	REGULATED	TO BE PRESERVED	556	76530	IO" ELM	REGULATED	TO BE PRESERVED		6" DOGWOOD	REGULATED	TO BE PRESERVED	791	79082 16" POPLAR	REGULATED	TO BE PRESERVI
328		24" HICKORY	REGULATED	TO BE PRESERVED	557		" DOGWOOD	REGULATED	TO BE PRESERVED		18/15/13/10" COTTONWOOD		TO BE PRESERVED	792	79077 12" POPLAR	REGULATED	TO BE PRESERVE
333	76415 1		REGULATED	TO BE REMOVED	558	76528		REGULATED	TO BE PRESERVED		24" COTTONWOOD	REGULATED	TO BE PRESERVED	793	79081 10" POPLAR	REGULATED	TO BE PRESERVE
334		12" MAPLE	REGULATED	TO BE REMOVED	559	DEAD 6		REGULATED	TO BE REMOVED	680 78481		REGULATED	TO BE PRESERVED	796	79076 18" COTTONWOOD	REGULATED	TO BE PRESERVE
335		B" MAPLE	REGULATED	TO BE REMOVED	560		IO" ELM	UNREGULATED	TO BE REMOVED	681 78478		REGULATED	TO BE PRESERVED	798	79072 8" POPLAR	REGULATED	TO BE PRESERVE
336	76419 8			TO BE REMOVED	561		7" DOGWOOD	UNREGULATED	TO BE REMOVED		14" DOGWOOD	REGULATED	TO BE PRESERVED	799	79071 14" POPLAR	REGULATED	TO BE PRESERVE
337 338	76418 7 76420 8		REGULATED	TO BE REMOVED TO BE REMOVED	562 563	76539 7 76538 7	7" ELM	UNREGULATED		683 78477 684 78479		REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	800 801	79069 12" POPLAR 79073 10" POPLAR	REGULATED REGULATED	TO BE PRESERVE
339		5" MAPLE	REGULATED	TO BE REMOVED	564	76544		REGULATED	TO BE REMOVED	685 78476		REGULATED	TO BE PRESERVED	802	79068 10" POPLAR	REGULATED	TO BE PRESERVE
340		15/13" ELM	REGULATED	TO BE REMOVED	565		7" DOGWOOD	REGULATED	TO BE REMOVED		10/8/6" CHERRY	REGULATED	TO BE REMOVED	803	79070 8" MAPLE	REGULATED	TO BE PRESERVI
341	76423 1		REGULATED	TO BE REMOVED	567	76534 9		REGULATED	TO BE PRESERVED	687 78474		REGULATED	TO BE REMOVED	804	79066 20" POPLAR	REGULATED	TO BE PRESERVE
342	76427 1			TO BE REMOVED	568	76532 8		REGULATED	TO BE PRESERVED	689 78463			TO BE REMOVED	805	79065 6/3" BIRCH	REGULATED	TO BE PRESERVE
343		12/12" ELM		TO BE REMOVED	569	76533		UNREGULATED	TO BE REMOVED	690 78473	10" ELM		TO BE REMOVED	807	79099 12" POPLAR	UNREGULATED	
344	76432 1		UNREGULATED	TO BE REMOVED	570		IO" ELM	REGULATED	TO BE PRESERVED	691 78462	7" CHERRY		TO BE REMOVED	808	79097 6" OAK	REGULATED	TO BE REMOVED
345	76433 1			TO BE REMOVED	571	76540					24" COTTONWOOD		TO BE REMOVED	809	79098 14" POPLAR		TO BE REMOVED
346	76426 1		REGULATED	TO BE REMOVED	572		3/5" ELM			693 78461			TO BE REMOVED	810	79100 6" CHERRY		TO BE REMOVED
347	76425 1		REGULATED	TO BE REMOVED	573	76541		UNREGULATED		694 78459		_	TO BE REMOVED	811	78480 8" CHERRY		TO BE REMOVED
348		7/8" ELM	REGULATED	TO BE REMOVED	574				TO BE REMOVED		20" COTTONWOOD		TO BE REMOVED	812	78481 12" SPRUCE		TO BE REMOVED
365		18" CRABAPPLE	REGULATED	TO BE PRESERVED	575		B" DOGWOOD	REGULATED	TO BE REMOVED	696 78464			TO BE REMOVED	813	78482 16" POPLAR		TO BE REMOVED
433 434		24/20" BOX ELDER	REGULATED	TO BE PRESERVED TO BE PRESERVED	576		36" POPLAR	REGULATED	TO BE REMOVED TO BE REMOVED	697 78466			TO BE REMOVED TO BE REMOVED	814	78483 14" POPLAR 78584 10" POPLAR	REGULATED	TO BE REMOVED
434	76457 1 76456 1		REGULATED REGULATED	TO BE PRESERVED	577 578	76547 8	9" DOGWOOD	REGULATED REGULATED	TO BE REMOVED	698 78467	14/13/12" MAPLE	REGULATED	TO BE PRESERVED	815 816	78479 12" COTTONWOOD		TO BE REMOVED
436	76455 1		REGULATED	TO BE PRESERVED	579		7/6" DOGWOOD	UNREGULATED	TO BE REMOVED		6" WALNUT	REGULATED	TO BE PRESERVED	817	78573 14" COTTONWOOD		TO BE REMOVED
437	76454 1		REGULATED	TO BE PRESERVED	580	76565					8/6" MAPLE	REGULATED	TO BE PRESERVED	818	78572 14" POPLAR		TO BE REMOVED
438		26" HICKORY	REGULATED	TO BE PRESERVED	581	76567			TO BE REMOVED	707 78509	•	REGULATED	TO BE PRESERVED	819	78594 10" POPLAR		TO BE REMOVED
439		18/15" WALNUT	REGULATED	TO BE PRESERVED	582	DEAD :					18" COTTONWOOD	REGULATED	TO BE PRESERVED	820	78593 12" COTTONWOOD	REGULATED	TO BE REMOVED
440	76451 1	15" ASH	UNREGULATED	TO BE REMOVED	583	76569	28" POPLAR	UNREGULATED		709 78508	16" COTTONWOOD	REGULATED	TO BE PRESERVED	821	NO TAG 6" OAK	UNREGULATED	TO BE REMOVED
445	DEAD 1			TO BE REMOVED	584		30" POPLAR		TO BE REMOVED	710 78506		REGULATED	TO BE PRESERVED	822	78592 12" POPLAR	REGULATED	TO BE REMOVED
447		30" MAPLE	REGULATED	TO BE PRESERVED	585	76581		UNREGULATED		711 78507		REGULATED	TO BE PRESERVED	823	78591 6" ELM	REGULATED	TO BE REMOVED
448		14" CHERRY	REGULATED	TO BE PRESERVED	586		L2" POPLAR			712 78511		REGULATED	TO BE PRESERVED	824	78590 10" COTTONWOOD		TO BE REMOVED
452		12/12/14" BOX ELDER		TO BE PRESERVED	587		L5" POPLAR		TO BE REMOVED	713 78512		REGULATED	TO BE PRESERVED	825	79002 15" COTTONWOOD		TO BE REMOVED
453 454	76429 1 76435 1			TO BE REMOVED TO BE REMOVED	588 589		15" POPLAR 12" POPLAR		TO BE REMOVED TO BE REMOVED	714 78513	20" COTTONWOOD	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	826 827	79003 10" COTTONWOOD 79004 26" POPLAR		TO BE REMOVED TO BE REMOVED
455		3" MAPLE		TO BE REMOVED	590	76576 8			TO BE REMOVED	718 79083		REGULATED	TO BE PRESERVED	828	79005 7" COTTONWOOD		TO BE REMOVED
456		9" MAPLE		TO BE REMOVED	591	76579					9" COTTONWOOD	REGULATED	TO BE PRESERVED	829	78589 7" ELM		TO BE REMOVED
457		20" MAPLE		TO BE REMOVED	593	76564		UNREGULATED	TO BE REMOVED		10" COTTONWOOD	REGULATED	TO BE PRESERVED	830	79030 16" DEAD		
470		10" MAPLE		TO BE REMOVED	594	76552		REGULATED	TO BE REMOVED	721 79085		REGULATED	TO BE PRESERVED	831	79029 9" POPLAR	REGULATED	TO BE REMOVED
471	76476 (DUPLICATE #) 1	12" ASH	UNREGULATED	TO BE REMOVED	595	76551 8	3" ELM	REGULATED	TO BE REMOVED	723 79091	10" COTTONWOOD	REGULATED	TO BE PRESERVED	832	79028 9" POPLAR	REGULATED	TO BE REMOVED
475	76478 (DUPLICATE #) 1	18" ELM	UNREGULATED	TO BE REMOVED	596	76550 8	3" ELM	REGULATED	TO BE REMOVED	724 79086	10" COTTONWOOD	REGULATED	TO BE PRESERVED	833	79027 8" OAK	REGULATED	TO BE REMOVED
476	76479			TO BE REMOVED	597	76553	" DOGWOOD	REGULATED	TO BE REMOVED		10" POPLAR	REGULATED	TO BE PRESERVED	834	79032 15" COTTONWOOD	UNREGULATED	
477		10" WALNUT	REGULATED	TO BE REMOVED	598		13" DOGWOOD	REGULATED	TO BE REMOVED		14" COTTONWOOD	REGULATED	TO BE PRESERVED	835	79033 7" ELM		TO BE REMOVED
			REGULATED	TO BE REMOVED	603		9" BOX ELDER	REGULATED	TO BE REMOVED		10" POPLAR	REGULATED	TO BE PRESERVED	836	79034 6" ELM		TO BE REMOVED TO BE PRESERVE
	76476 (DUPLICATE #) 1 76474 (DUPLICATE #) 1			TO BE REMOVED TO BE PRESERVED	604 605	76496 6 76495 8		REGULATED REGULATED	TO BE REMOVED TO BE REMOVED		10" COTTONWOOD 14" COTTONWOOD	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	837 838	79035 8" ELM 79031 13" ELM		TO BE REMOVED
482		13" CHERRY		TO BE REMOVED	606			REGULATED	TO BE REMOVED		14" COTTONWOOD		TO BE PRESERVED	839	79036 13" COTTONWOOD	REGULATED	TO BE REMOVED
483		18" CHERRY		TO BE REMOVED	609		5" DOGWOOD	REGULATED	TO BE REMOVED		14" COTTONWOOD		TO BE PRESERVED	840	79037 12" COTTONWOOD	REGULATED	TO BE REMOVED
485		5" MAPLE		TO BE REMOVED	612		12" WALNUT	REGULATED	TO BE REMOVED	733 78516			TO BE PRESERVED	841	79064 6" CHERRY	REGULATED	TO BE PRESERVE
486	76472 f	B" MAPLE	REGULATED	TO BE REMOVED	613	78411	11" WALNUT	REGULATED	TO BE REMOVED	734 78539	13" COTTONWOOD	REGULATED	TO BE PRESERVED	842	79063 10" POPLAR	REGULATED	TO BE PRESERVE
489	76480 1	12" ELM	UNREGULATED	TO BE REMOVED	614	78408	IO" ELM	REGULATED	TO BE REMOVED	735 78540	10" COTTONWOOD	REGULATED	TO BE PRESERVED	843	79062 14" POPLAR	REGULATED	TO BE PRESERVE
490	76481			TO BE REMOVED	615	78409		REGULATED	TO BE REMOVED		12" COTTONWOOD	REGULATED	TO BE PRESERVED	844	79061 14" POPLAR	REGULATED	TO BE PRESERVE
491		B" HICKORY		TO BE REMOVED	616			REGULATED	TO BE REMOVED	737 78519		REGULATED	TO BE PRESERVED	845	79074 7" POPLAR	REGULATED	TO BE PRESERVE
492		5" HICKORY		TO BE REMOVED	617		10/8" HICKORY	REGULATED	TO BE REMOVED	738 78510			TO BE PRESERVED	846	79059 18/18" COTTONWOOD		TO BE PRESERVE
493		9" HICKORY		TO BE REMOVED	618	78406	5" ELM 39" POPLAR	REGULATED	TO BE REMOVED	739 78520			TO BE PRESERVED	847	79075 8" ELM	REGULATED	TO BE PRESERVI
494 495		9" HICKORY 9" HICKORY		TO BE REMOVED TO BE REMOVED	619 620	78405 3 78407 6		REGULATED REGULATED	TO BE REMOVED	740 78521 741 78535			TO BE PRESERVED TO BE PRESERVED	848 851	79060 12" CHERRY 79042 8" CHERRY	REGULATED REGULATED	TO BE PRESERVE
495		3" HICKORY		TO BE REMOVED	626	76555		REGULATED	TO BE REMOVED		14" COTTONWOOD	REGULATED	TO BE PRESERVED	852	79042 8 CHERRY 79041 14" COTTONWOOD	REGULATED	TO BE PRESERVE
499		10" ELM		TO BE REMOVED	627		5" DOGWOOD	REGULATED	TO BE REMOVED	742 78537			TO BE PRESERVED	854	79039 8" COTTONWOOD	REGULATED	TO BE PRESERVE
500	76502 8			TO BE REMOVED	628	76557		REGULATED	TO BE REMOVED		20/18" COTTONWOOD		TO BE REMOVED	855	79040 8" COTTONWOOD	REGULATED	TO BE PRESERVE
501	76501 8			TO BE REMOVED	629	76558	" DOGWOOD	REGULATED	TO BE REMOVED	745 78531			TO BE REMOVED	857	79054 9" COTTONWOOD		
502		10" WALNUT	UNREGULATED	TO BE REMOVED	630		12/10" DOGWOOD		TO BE PRESERVED		10" COTTONWOOD	UNREGULATED	TO BE REMOVED	858	79053 8" COTTONWOOD		
503	76504 1	10/5" WALNUT	UNREGULATED	TO BE REMOVED	631	76560		REGULATED	TO BE PRESERVED	750 78530	10" ELM	UNREGULATED	TO BE REMOVED	859	79044 16" COTTONWOOD	REGULATED	TO BE PRESERVE
504		12" HICKORY		TO BE REMOVED	632	76559		REGULATED	TO BE REMOVED	751 78532			TO BE REMOVED	860	79052 10" COTTONWOOD		TO BE REMOVE
505		10/9" HICKORY		TO BE REMOVED	633	76562					20" POPLAR		TO BE REMOVED	861	79045 12" COTTONWOOD	REGULATED	TO BE PRESERV
508		8/5" ELM		TO BE REMOVED	634	76563		UNREGULATED		753 78534			TO BE REMOVED	862	79046 6" ELM	REGULATED	TO BE PRESERV
509		15/12" MAPLE		TO BE REMOVED	635		18/12/10" MAPLE		TO BE REMOVED		15" COTTONWOOD		TO BE REMOVED	863	79038 10" HICKORY	REGULATED	TO BE REMOVED
510 511		B" HICKORY 12" WALNUT		TO BE REMOVED TO BE REMOVED	636 637		12/10" MULBERRY 18" MAPLE	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	755 78557 756 78553			TO BE REMOVED TO BE REMOVED	864 865	79049 15" COTTONWOOD 79048 14" COTTONWOOD		TO B EREMOVE
511	76494 1 76497 7			TO BE REMOVED	638	78429 : 78435 :		REGULATED	TO BE REMOVED		7" COTTONWOOD		TO BE REMOVED	865	79048 14" COTTONWOOD 79047 8" ELM		TO BE REMOVE
514	76499			TO BE REMOVED	639	78436		REGULATED	TO BE REMOVED		10" COTTONWOOD		TO BE REMOVED	868	79051 12" ELM		TO BE REMOVE
515	76500 8			TO BE REMOVED	640		12/6" ELM	REGULATED	TO BE REMOVED		22" COTTONWOOD		TO BE REMOVED	869	79050 10" ELM		TO BE REMOVE
517		10" ELM		TO BE REMOVED	641	78438		REGULATED	TO BE REMOVED		6" COTTONWOOD		TO BE REMOVED	870	79055 7" COTTONWOOD		TO BE REMOVE
518		9" MAPLE		TO BE REMOVED	642			REGULATED	TO BE REMOVED		10" POPLAR		TO BE REMOVED	871	79056 7" OAK		TO BE REMOVE
		10" ELM		TO BE REMOVED		NO TAG		REGULATED	TO BE REMOVED		14" COTTONWOOD		TO BE REMOVED	872	79057 12" COTTONWOOD		TO BE REMOVE
519		12" MAPLE		TO BE REMOVED	644		I3" WALNUT	REGULATED	TO BE PRESERVED		10" COTTONWOOD		TO BE REMOVED	873	79021 12" COTTONWOOD	UNREGULATED	TO BE REMOVE
519 520		7" MAPLE		TO BE REMOVED	645		I2" WALNUT	REGULATED	TO BE PRESERVED	764 80301			TO BE REMOVED	874	79022 6" POPLAR		TO BE REMOVE
				TO BE REMOVED	646	78419	3" ELM	REGULATED	TO BE PRESERVED	765 78548	6" ELM	UNREGULATED	TO BE REMOVED	875	79020 8" ELM	UNREGULATED	TO BE REMOVE
520 521 522	76526 2											f				LINIBECULATED	TO BE REMOVED
520 521 522 523	76526 2 76521 1	18" MAPLE	REGULATED	TO BE REMOVED	647	78417		REGULATED	TO BE PRESERVED	766 78574			TO BE REMOVED	876	79019 8" ELM		
520 521 522 523 524	76526 2 76521 1 76520 7	18" MAPLE 7" ELM	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	648	78422 6	5" ELM	REGULATED	TO BE PRESERVED	769 78576	8/4" BIRCH	UNREGULATED	TO BE REMOVED	877	79023 10" COTTONWOOD	UNREGULATED	TO BE REMOVED
520 521 522 523	76526 2 76521 1 76520 7 76516 2	18" MAPLE	REGULATED REGULATED REGULATED	TO BE REMOVED		78422 6	5" ELM I2" WALNUT			769 78576 770 78477	8/4" BIRCH	UNREGULATED UNREGULATED				UNREGULATED UNREGULATED	



Surveyors Planners

Landscape Architects Environmental Specialists

6303 26 Mile Road Suite 100

Washington, MI 48094 p (586) 781-8950 f (586) 781-8951

www.giffelswebster.com

Executive:	P.M.
Manager:	M.P.
Engineer:	L.W.
Quality Control:	N.M.
Section:	







DATE:	ISSUE:
03.05.2015	PRELIM. SITE PLAN SUBMITTAL
07.06.2015	REVISED PER CITY REVIEW
08.04.2015	REVISED PER CITY REVIEW
10.23.2015	REVISED PER PC REVIEW
12.02.2015	RELOCATE LOT 17

Developed For:

VANGUARD COMPANIES

101 S. MAIN STREET ROCHESTER, MI 48037

p (248) 650-6206 f (248) 650-6274

TREE TABLE 1 OF 2

PRELIMINARY SITE PLAN NOTTINGHAM WOODS

ROCHESTER HILLS MICHIGAN

Oakland County

Date:	7/6/15
Scale:	N/A
Sheet:	06

POINT NUMBER	TREE TAG	SPECIES	REGULATION	REMOVAL PLAN	POINT NUMBER	TREE TAG	SPECIES	REGULATION	REMOVAL PLAN	POINT NUMBER	TREE TAG	SPECIES	REGULATION	REMOVAL PLAN	POINT NUMBER	TREE TAG	SPECIE
881 882	78587 14" 78586 10"	COTTONWOOD POPLAR	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1226 1227		12" DOGWOOD 6" WALNUT	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	1367 1368		9" CHERRY 6" DOGWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1637 1638		1 10" SPRUCE 2 6" CEDAR
883	78585 6" (COTTONWOOD	REGULATED	TO BE REMOVED	1231	80318	7" MULBERRY	REGULATED	TO BE PRESERVED	1369		18" POPLAR	REGULATED	TO BE REMOVED	1652	80289	24" MAPLE
886 887		COTTONWOOD		TO BE REMOVED TO BE REMOVED	1232 1233		6" DOGWOOD 6/5/5/4" HAWTHORN	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	1370 1371		8" ELM 10" ELM	REGULATED REGULATED	TO BE REMOVED	1653 1655		10" ASH 1 12" SPRUCE
888	79015 16"	COTTONWOOD	UNREGULATED	TO BE REMOVED	1240	80303	6/6/6/7/4" FRUIT	REGULATED	TO BE PRESERVED	1372	78453	16" POPLAR	UNREGULATED	TO BE REMOVED	1656	80288	3 10" MAPLE
889 890		COTTONWOOD COTTONWOOD		TO BE REMOVED TO BE REMOVED	1250 1251		8" CRABAPPLE 7" CRABAPPLE	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	1373 1510		8" ELM 6" ELM	UNREGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1664 1672		1 12" FIR 2 10/8" LOCUS
891	79009 12"	COTTONWOOD	UNREGULATED	TO BE REMOVED	1257	80306	10" CRABAPPLE	REGULATED	TO BE PRESERVED	1511	79171	11" ELM	REGULATED	TO BE REMOVED	1673	80273	3 13" MAPLE
892 893	79008 6" I 79012 13"		REGULATED UNREGULATED	TO BE REMOVED TO BE REMOVED	1261 1266		14/11" MAPLE 18/13/12/8" BIRCH	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	1512 1513		6" ELM 10" POPLAR	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1676 1679		1 15" MAPLE 5 24" PINE
894	79011 6" ו	ELM	UNREGULATED	TO BE REMOVED	1267	80309	8/6" BIRCH	REGULATED	TO BE PRESERVED	1514	79170	12" COTTONWOOD	REGULATED	TO BE REMOVED	1680	80276	24" PINE
895 896	79016 8" I 79017 18"	COTTONWOOD		TO BE REMOVED TO BE REMOVED	1268 1269		7" BIRCH 10/7" BIRCH	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	1515 1516		6" OAK 9" COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1681	NO TAG (OFFSITE) 80277	12" PINE 7 14" PINE
897		COTTONWOOD	UNREGULATED	TO BE REMOVED	1270	80311	15/10/8" BIRCH	REGULATED	TO BE PRESERVED	1517	79167	13" COTTONWOOD	REGULATED	TO BE REMOVED	1687 1688		20" PINE 1 12" PINE
898 901	79058 6" I 80256 15"		REGULATED	TO BE REMOVED TO BE REMOVED	1271 1272		7/7" BIRCH 15/10" BIRCH	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	1518 1519		16" COTTONWOOD 10" COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1689		10" PINE
902 903	80258 8"	LM COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE PRESERVED	1281		18" CHERRY	REGULATED	TO BE PRESERVED TO BE REMOVED	1520 1521		12" COTTONWOOD 7" CHERRY	REGULATED	TO BE REMOVED	1690 1691		10" PINE 12" SPRUCE
903	80262 10"		REGULATED	TO BE PRESERVED	1282 1283		14" ELM 8" DOGWOOD		TO BE REMOVED	1521		6" CHERRY	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1692	80283	14" SPRUCE
906 908	80263 12" 80261 6" I		REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1284 1285		9/5" ELM 10" ELM		TO BE REMOVED TO BE REMOVED	1523 1524		16" POPLAR 10" ELM	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1693 1694		10" SPRUCE 12" PINE
910	80259 6" 1		REGULATED	TO BE REMOVED	1285		6" CHERRY		TO BE REMOVED	1524		12" COTTONWOOD	REGULATED	TO BE REMOVED	1698	80286	10" PINE
912 914	80256 12" 80257 8" I	'ELM ELM	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1287 1288		13" ELM 10" MAPLE		TO BE REMOVED TO BE REMOVED	1526 1527		7" POPLAR 10" COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1699 1700		7 15/14/12/8" 3 14" SPRUCE
916	80255 10"		REGULATED	TO BE REMOVED	1289		20" COTTONWOOD		TO BE REMOVED	1528		12" POPLAR	REGULATED	TO BE REMOVED	1715	NO TAG (OFFSITE)	12" PINE
917 918	79166 6" I 79164 10"		REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1290 1291		9" CHERRY 13/12" COTTONWOOD		TO BE REMOVED TO BE REMOVED	1529 1530		7" MAPLE 8" ELM	UNREGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1716 1717		20" ELM 5 8/5" OAK
919	79162 10"		REGULATED	TO BE REMOVED	1291		14" MAPLE	UNREGULATED	TO BE REMOVED	1531		8" ELM	REGULATED	TO BE REMOVED	1718	76430	15" ELM
920 921	79165 6" I	LIM COTTONWOOD	UNREGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1293 1294		7" CHERRY 12" BIRCH		TO BE REMOVED TO BE REMOVED	1532 1533		24" COTTONWOOD 6" BIRCH	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1719 1720		2 12" FIR 1 20" HICKORY
922	79163 8" ו	ELM	UNREGULATED		1295		6" POPLAR	REGULATED	TO BE REMOVED	1534	80209	22" COTTONWOOD	REGULATED	TO BE REMOVED	1721	76403	3 24" OAK
923 924	79158 18" 79157 12"	COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1296 1297		6" ASPEN 12" COTTONWOOD		TO BE REMOVED TO BE REMOVED	1535 1536		12" COTTONWOOD 6" BIRCH	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1722 1723		7 18" PINE 5 15" PINE
925	79159 8" ו	ELM	UNREGULATED	TO BE REMOVED	1298	78559	10" COTTONWOOD	UNREGULATED	TO BE REMOVED	1537		7" BIRCH	REGULATED	TO BE REMOVED	1724	76448	3 12" APPLE
927 928		COTTONWOOD COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1299 1300		6" CHERRY 10/18" COTTONWOOD		TO BE REMOVED TO BE REMOVED	1538 1539		8" CHERRY 15" COTTONWOOD	REGULATED REGULATED	TO BE REMOVED	1725 1726		2 24" WILLOW 3 TREE\$1 TREE
929	DEAD 6" I	DEAD	UNREGULATED	TO BE REMOVED	1301	78564	15" COTTONWOOD	UNREGULATED	TO BE REMOVED	1540	80204	9" CHERRY	REGULATED	TO BE REMOVED	1727	78495	9" ELM
930 931		COTTONWOOD COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1302 1303		7" COTTONWOOD 16" COTTONWOOD		TO BE REMOVED TO BE REMOVED	1541 1542		10" CHERRY 10" POPLAR	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1728 1729		6" CHERRY 18" COTTON
932	79109 18"	COTTONWOOD	REGULATED	TO BE REMOVED	1304	78567	12" COTTONWOOD	UNREGULATED	TO BE REMOVED	1543	79200	8" CHERRY	REGULATED	TO BE REMOVED	1730		3 7" ELM
933 934	79108 8" I 79107 8" I		REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1305 1306		8" ELM 7" ELM		TO BE REMOVED TO BE REMOVED	1544 1545		18" CHERRY 12" MAPLE	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1731 1732		9 13" ELM 7" ELM
935	79106 24"	COTTONWOOD	REGULATED	TO BE REMOVED	1307	78568	8" CHERRY	UNREGULATED	TO BE REMOVED	1546	79197	10" MAPLE	REGULATED	TO BE REMOVED	1733		13" COTTON
936 937	79105 8" I 79122 12"			TO BE REMOVED TO BE REMOVED	1308 1309		10/8" OAK 10" POPLAR	REGULATED	TO BE REMOVED TO BE REMOVED	1547 1548		12" CHERRY 12" CHERRY	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1734 1735		TREE\$1 TREE TREE\$1 TREE
938	NO TAG 10"	'ELM	REGULATED	TO BE REMOVED	1310	79001	15" COTTONWOOD	REGULATED	TO BE REMOVED	1549	79194	10" CHERRY	REGULATED	TO BE REMOVED	1736 1737		7" ELM 7 20" COTTON
939 940	79120 16" 79121 10"	COTTONWOOD ELM		TO BE REMOVED TO BE REMOVED	1311 1312		13" COTTONWOOD 8" OAK	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1551 1552		8" CHERRY 7" CHERRY	REGULATED REGULATED	TO BE PRESERVED TO BE REMOVED	1738		7 ELM
941		COTTONWOOD	UNREGULATED	TO BE REMOVED	1313	78600	6/7" OAK	REGULATED	TO BE REMOVED	1553		10" COTTONWOOD	REGULATED	TO BE REMOVED	1739 1740		7" ELM DEAD \$1 DEA
942 943		COTTONWOOD COTTONWOOD	REGULATED UNREGULATED	TO BE REMOVED TO BE REMOVED	1314 1315		7" POPLAR 22/12/11" COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1554 1556		16" COTTONWOOD 8" POPLAR	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1740	00200	J DEAD ST DEA
944		COTTONWOOD	REGULATED	TO BE REMOVED	1316	79103	6/4" OAK	UNREGULATED	TO BE REMOVED	1557		15" COTTONWOOD	REGULATED	TO BE REMOVED			
945 946	79124 10" 79125 10"	COTTONWOOD		TO BE REMOVED TO BE REMOVED	1317 1318		7" OAK 12" CHERRY		TO BE REMOVED TO BE REMOVED	1558 1559		12" COTTONWOOD 8" COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED			
947		COTTONWOOD	REGULATED	TO BE REMOVED TO BE REMOVED	1319		6" ASH 8" ASH		TO BE REMOVED	1560		10" COTTONWOOD	REGULATED	TO BE REMOVED			
948 949	79126 12"	COTTONWOOD BIRCH	REGULATED	TO BE REMOVED	1320 1321		9" ELM		TO BE REMOVED TO BE REMOVED	1561 1562		8" CHERRY 12" COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED			
950 951		COTTONWOOD COTTONWOOD	UNREGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1322 1323		7/5" ELM 6" ELM		TO BE REMOVED TO BE REMOVED	1564 1565		9" ELM 16" COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED			
952		COTTONWOOD		TO BE REMOVED	1324		8" ELM		TO BE REMOVED	1566		15" POPLAR	REGULATED	TO BE REMOVED			
953 954	79129 12" 79147 8" I	COTTONWOOD		TO BE REMOVED TO BE REMOVED	1325 1326		11" MAPLE 6" ELM		TO BE REMOVED TO BE REMOVED	1567 1568		8" COTTONWOOD 13" ELM		TO BE REMOVED			
955	79131 6" (OAK	UNREGULATED	TO BE REMOVED	1327	76598	10" ELM	UNREGULATED	TO BE REMOVED	1569	79181	13" COTTONWOOD		TO BE REMOVED			
956 957	79135 16" 79132 8" (COTTONWOOD		TO BE REMOVED TO BE REMOVED	1328 1329		9" ELM 7" WALNUT		TO BE REMOVED TO BE REMOVED	1570 1571		10" ELM 6" ELM	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED			
958	79133 10"	ELM	UNREGULATED	TO BE REMOVED	1330	76590	10" WALNUT	UNREGULATED	TO BE REMOVED	1572	80225	6" OAK	REGULATED	TO BE REMOVED			
959 960	79134 10" 79130 14"	COTTONWOOD		TO BE REMOVED TO BE REMOVED	1331 1332		24" POPLAR 6" ELM		TO BE REMOVED TO BE REMOVED	1573 1574		13" COTTONWOOD 10" POPLAR	REGULATED REGULATED	TO BE REMOVED			
961	79136 12"	COTTONWOOD	UNREGULATED	TO BE REMOVED	1333	76593	6" ELM	UNREGULATED	TO BE REMOVED	1575	80211	8" CHERRY	REGULATED	TO BE REMOVED			
962 963		COTTONWOOD COTTONWOOD		TO BE REMOVED	1334 1337		6" ELM 9" ELM		TO BE REMOVED TO BE REMOVED	1576 1577		12" POPLAR 26" MAPLE		TO BE REMOVED TO BE PRESERVED			
964	79141 20"	COTTONWOOD	UNREGULATED	TO BE REMOVED	1338	78413	6" APPLE	REGULATED	TO BE REMOVED	1578	80214	33" COTTONWOOD	REGULATED	TO BE PRESERVED			
965 966		COTTONWOOD		TO BE REMOVED TO BE REMOVED	1339 1340		10" ELM 12" ELM		TO BE PRESERVED TO BE PRESERVED	1579 1581		33" COTTONWOOD 12" ELM	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED			
967	79190 8" (CHERRY	REGULATED	TO BE REMOVED	1341	78428 (DEAD)	10" ELM	UNREGULATED	TO BE REMOVED	1582	80217	8" ELM	REGULATED	TO BE PRESERVED			
968 969	79187 12" 79189 6" (CHERRY	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1342 1344	78427 (DEAD) 78425	8" ELM 6" CHERRY		TO BE REMOVED TO BE PRESERVED	1583 1584		13" COTTONWOOD 12" CRABAPPLE		TO BE PRESERVED TO BE REMOVED			
970	79188 30"	COTTONWOOD	REGULATED	TO BE REMOVED	1345	78424	10" ASH	UNREGULATED	TO BE REMOVED	1585	80241 (DUP #)	12" MAPLE	REGULATED	TO BE REMOVED			
971 972	79186 10" 79191 8" (REGULATED REGULATED	TO BE REMOVED TO BE PRESERVED	1346 1347		9" ELM 9" ELM		TO BE PRESERVED TO BE PRESERVED	1586 1587		18/12/15" COTTONWOOD CLUSTER" CRABAPPLE		TO BE REMOVED TO BE REMOVED	-		
973	79184 18"	COTTONWOOD	REGULATED	TO BE REMOVED	1348	78415	18" ELM	REGULATED	TO BE PRESERVED	1588	80241 (DUP #)	10" ELM	REGULATED	TO BE PRESERVED			
974 1002	79183 12" DEAD 20"	COTTONWOOD DEAD	REGULATED UNREGULATED	TO BE REMOVED TO BE REMOVED	1349 1351		15" ELM 8" REDBUD		TO BE PRESERVED TO BE PRESERVED			12" COTTONWOOD 22" COTTONWOOD		TO BE REMOVED TO BE REMOVED	-		
1003	DEAD 14"	DEAD	UNREGULATED	TO BE REMOVED	1352	78430	10" ASH	UNREGULATED	TO BE REMOVED	1591	80233	10" CHERRY	REGULATED	TO BE REMOVED	1		
1011 1040		-11-5" DOGWOOD	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	1353 1354		15" ELM 12" ELM		TO BE PRESERVED TO BE PRESERVED	1592 1593		8" COTTONWOOD 18" COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	-		
1110	76462 6" I	DOGWOOD	REGULATED	TO BE PRESERVED	1355	78450	12/5" ASH	UNREGULATED	TO BE REMOVED	1594	80235	15" COTTONWOOD	REGULATED	TO BE REMOVED	1		
1114 1116	80266 10" 76461 26"	PINE DOGWOOD	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	1356 1357		14" ASH 15/12" ASH		TO BE REMOVED TO BE REMOVED	1595 1596		15" COTTONWOOD 18" COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED	1		
1118	NO TAG (OFFSITE) 11"	'ELM	UNREGULATED	TO BE PRESERVED	1358	76597	12" WALNUT	UNREGULATED	TO BE REMOVED	1597	80245	9" CHERRY	REGULATED	TO BE PRESERVED	1		
1120 1153		14" DOGWOOD RUSSIAN OLIVE	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	1359 1360		8/5/4" ELM 6" ELM		TO BE REMOVED TO BE REMOVED	1598 1599		12" ELM 14" COTTONWOOD		TO BE REMOVED TO BE REMOVED			
1154	80325 10"	DOGWOOD	REGULATED	TO BE PRESERVED	1361	76599	9" ELM	UNREGULATED	TO BE REMOVED	1600	80249	10" ELM	REGULATED	TO BE REMOVED	-		
1162 1219		-4" CRABAPPLE '8/5/3" APPLE	REGULATED REGULATED	TO BE PRESERVED TO BE PRESERVED	1362 1363		10" ELM 8" ELM		TO BE REMOVED TO BE REMOVED	1601 1602		9" ELM 24" COTTONWOOD	REGULATED REGULATED	TO BE REMOVED TO BE REMOVED			
		10" APPLE	REGULATED	TO BE PRESERVED	1364	78440	28" POPLAR	UNREGULATED	TO BE REMOVED	1630	80295	5" SPRUCE 8" SPRUCE	UNREGULATED	TO BE REMOVED TO BE PRESERVED			
1220 1222	80323 8" (REGULATED	TO BE PRESERVED	1365		8" ELM	UNREGULATED		1635			REGULATED				

SPECIES

80271 12" FIR 80272 10/8" LOCUST

76458 TREE\$1 TREE 78495 9" ELM 78502 6" CHERRY

78598 TREE\$1 TREE

REGULATION REMOVAL PLAN

REGULATED TO BE PRESERVED

REGULATED TO BE PRESERVED

REGULATED TO BE PRESERVED

UNREGULATED TO BE REMOVED TO BE PRESERVED

REGULATED TO BE PRESERVE

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80287 15/14/12/8" MAPLE REGULATED TO BE PRESERVED 80288 14" SPRUCE REGULATED TO BE PRESERVE

78502 6" CHERRY REGULATED TO BE PRESERVED
78534 18" COTTONWOOD REGULATED TO BE REMOVED

 78471
 13" COTTONWOOD
 REGULATED
 TO BE REMOVED

 78496
 TREE\$1 TREE
 REGULATED
 TO BE REMOVED

 79178
 7" ELM
 REGULATED
 TO BE REMOVED

 80227
 20" COTTONWOOD
 REGULATED
 TO BE REMOVED

REGULATED TO BE PRESERVED

UNREGULATED TO BE PRESERVE

REGULATED TO BE PRESERVED

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REGULATED TO BE REMOVED UNREGULATED TO BE REMOVED



Surveyors Planners

Landscape Architects Environmental Specialists

6303 26 Mile Road Suite 100

Washington, MI 48094 p (586) 781-8950 f (586) 781-8951

www.giffelswebster.com

Executive:	P.M.
Manager:	M.P.
Engineer:	L.W.
Quality Control:	N.M.
Section:	







DATE:	ISSUE:
03.05.2015	PRELIM. SITE PLAN SUBMITTA
07.06.2015	REVISED PER CITY REVIEW
08.04.2015	REVISED PER CITY REVIEW
10.23.2015	REVISED PER PC REVIEW
12.02.2015	RELOCATE LOT 17

Developed For:

VANGUARD COMPANIES

101 S. MAIN STREET ROCHESTER, MI 48037

p (248) 650-6206 f (248) 650-6274

TREE TABLE 2 OF 2

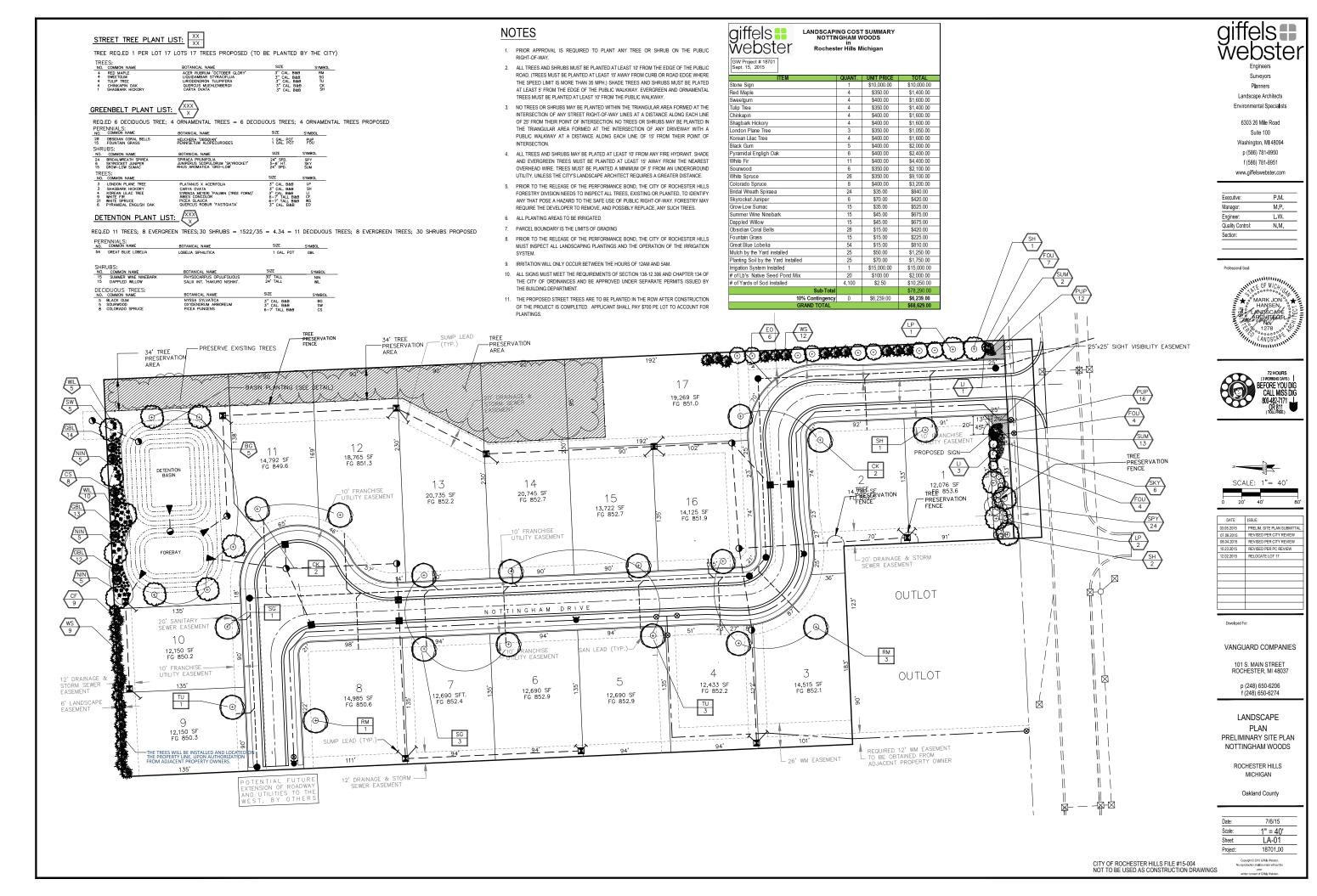
PRELIMINARY SITE PLAN NOTTINGHAM WOODS

> ROCHESTER HILLS MICHIGAN

> > Oakland County

Date:	7/6/15
Scale:	N/A
Sheet:	07
Project:	18701.00

CITY OF ROCHESTER HILLS FILE #15-004 NOT TO BE USED AS CONSTRUCTION DRAWINGS



PLANT NOTES:

- A. The Planning Department may approve an alternative form of irrigation for a particular site, or may waive this requirement upon determining that underground irrigation is not necessary for the type of proposed plant materials
- B. All automatic irrigation systems shall be designed to minimize water usage, and shall be shut off during water emergencies, periods of protracted rainfall, or water rationing periods.
- C. The irrigation requirement may be waived by the reviewing authority if the project incorporates landscaping that will contribute points towards LEED certification or an equivalent rating system.
- D. The applicant may be required to post a Performance Bond prior to the issuance of a temporary or final Certificate of Occupancy to ensure the completion of landscaping (including irrigation). If the landscaping is not 100% complete when any certificate of occupancy is requested, the City will inspect the landscaping and determine the percentage of completion and a performance bond must be submitted to the City by the Developer in the sum equal to the unfinished portion of the landscape work. The City will have the authority to determine the percentage of completion and the bond amount required. If the landscaping is 100% compete and approved no Performance Bond will be required.
- E. Maintenance Bond. A Maintenance Bond in the sum of 25% of estimated cost of landscaping (including irrigation) must be posted prior to the issuance of any Certificate of Occupancy (including temporary). The Maintenance Bond is held for a period 2 years, at the end of which time the City shall inspect the landscaping. Once, inspection issues are addressed the unused balance of the Maintenance Bond will be released.

The owner of the property shall be responsible for all maintenance of site landscaping, as follows: A. Landscaping shall be kept in a neat, orderly and healthy growing condition, free from debris and

- B. B. 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.
- C. C. All dead, damaged, or diseased plant material shall be removed immediately and replaced within six (6) months after it dies or in the next planting season, whichever occurs first. For purposes of this Section, the planting season for deciduous plants shall be between March 1 and June 1 and from October 1 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. The City may notify property owners of the need to replace dead, damaged, or diseased
- D. The approved landscape plan shall be considered a permanent record and integral part of the Site Plan Approval. Unless otherwise approved in accordance with the aforementioned procedures, any revisions to or removal of plant materials, or non-compliance with the maintenance requirements of this Section 138-2.109 will place the parcel in non-conformity with the approved landscape plan and be a violation of this Ordinance.
- E. If protected trees are damaged, a fine shall be issued on an inch-by-inch basis at a monetary rate as defined by the Forestry Department.

PLANT AT TRUNK FLARE

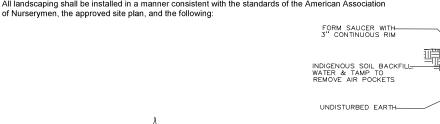
FORM SAUCER WITH-3" CONTINUOUS RIM

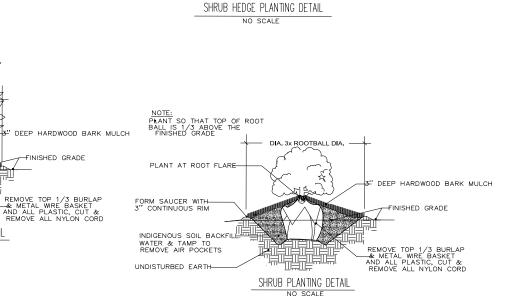
UNDISTURBED EARTH

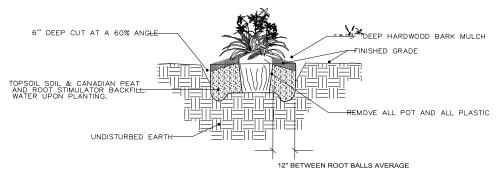
INDIGENOUS SOIL BACKF WATER & TAMP TO REMOVE AIR POCKETS

All landscaping shall be installed in a manner consistent with the standards of the American Association

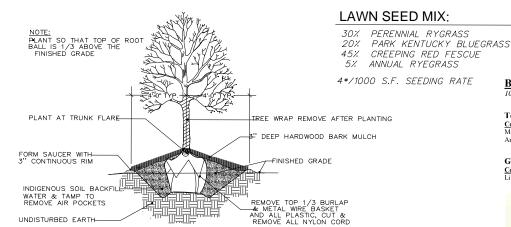
EVERGREEN TREE PLANTING DETAIL







PERENNIAL PLANTING DETAIL



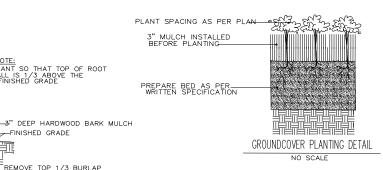
DECIDUOUS TREE PLANTING DETAIL

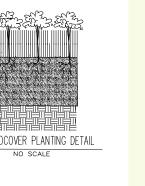
PLANT SO THAT TOP OF ROOT BALL IS 1/3 ABOVE THE FINISHED GRADE

FINISHED GRADE

I I 12" BETWEEN ROOT BALLS TYP.

REMOVE TOP 1/3 BURLAP ≩ METAL WIRE BASKET AND ALL PLASTIC CUT & REMOVE ALL NYLON CORD



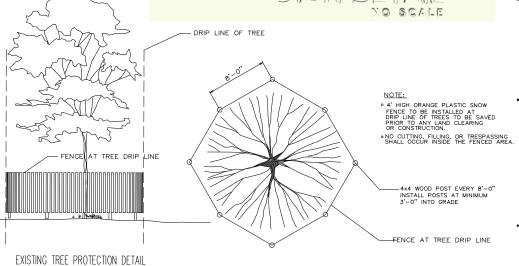


NO SCALE

Bio Retention Native Seed Mix:

June-August
-







Planners

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LANDSCAPE DETAILS PRELIMINARY SITE PLAN NOTTINGHAM WOODS

> ROCHESTER HILLS MICHIGAN

Oakland County

Date:	7/6/15
Scale:	N/A
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Project:	18701.00

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