ENGINEER

(630) 548-7500

MR. MICHAEL MOTTE. PE ATWELL-HICKS 50182 SCHOENHERR ROAD SHELBY TOWNSHIP, MI 48315 (586) 786-9800

LANDSCAPE ARCHITECT

MR. WILLIAM KNIGHTON, RLA NO. 1107 ATWELL-HICKS 50182 SCHOENHERR ROAD SHELBY TOWNSHIP, MI 48315 (586) 786-9800

ARCHITECT

BOICE RAIDL RHEA 6700 ANTIOCH PLAZA SUITE 300 MERRIAM, KS 66204 (913) 262-9095

MUNICIPAL ENGINEER

MR. PAUL DAVIS, PE DIRECTOR OF ENGINEERING 1000 ROCHESTER HILLS DRIVE ROCHESTER HILLS, MI 48309 (248)656-4600

CITY PLANNER

MR. ED ANZEK PLANNING DEPARTMENT DIRECTOR 1000 ROCHESTER HILLS DRIVE ROCHESTER HILLS, MI 48309 (248)656-4600

ENTRANCE

MDOT (OAKLAND TSC) 2300 DIXIE HIGHWAY SUITE 300 WATERFORD, MI 48328 (248) 451-0001

EROSION CONTROL

MR. RICK DeVISCH DRAIN COMMISSION OF OAKLAND COUNTY ONE PUBLIC WORKS DRIVE WATERFORD, MI 48328 (248) 858-4939

WATER - PUBLIC

CITY OF ROCHESTER HILLS ENGINEERING AND WATER DEPARTMENT 1000 ROCHESTER HILLS DRIVE ROCHESTER HILLS, MI 48309 (248) 656-4585

SANITARY SEWER - PUBLIC

BEFORE YOU DIG

FOR THE LOCATION OF

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN

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OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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INDEPENDENTLY VERIFIED BY THE OWNER OR ITS

EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY

CITY OF ROCHESTER HILLS ENGINEERING AND WATER DEPARTMENT 1000 ROCHESTER HILLS DRIVE ROCHESTER HILLS, MI 48309 (248) 656-4585

REZONING

REZONE PARCEL NO. 15-35-100-035 FROM R-4 TO B-3 (APPROVED MARCH 1, 2006. ENACTMENT NO. RES0076-2006)

LANDOWNERS

THRIFTY VANDYKE, INC. 2929 WALKER NW GRAND RAPIDS. MI 49544 CONTACT: MR. PAUL DEHOEK

P.E.M., LLC. 39533 WOODWARD BLOOMFIELD HILLS, MI 48304 CONTACT: MR. PATRICK MORAN

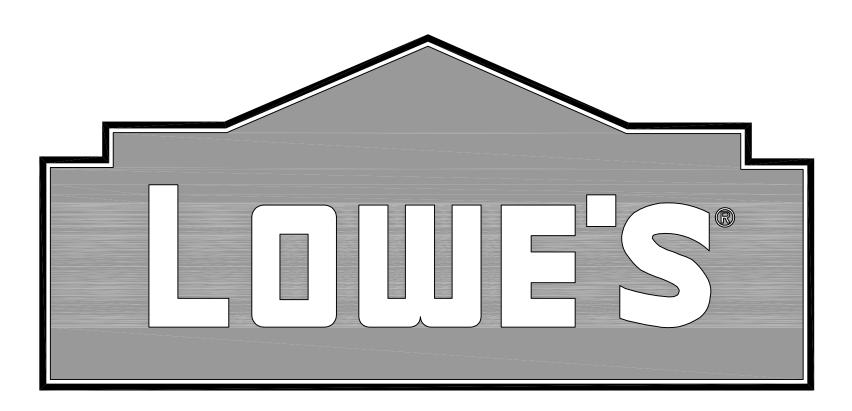
LOWE'S HOME CENTERS, INC. HWY 268 EAST N. WILKESBORO, NC 28659 CONTACT: MR. TOM EBELS

UTILITIES

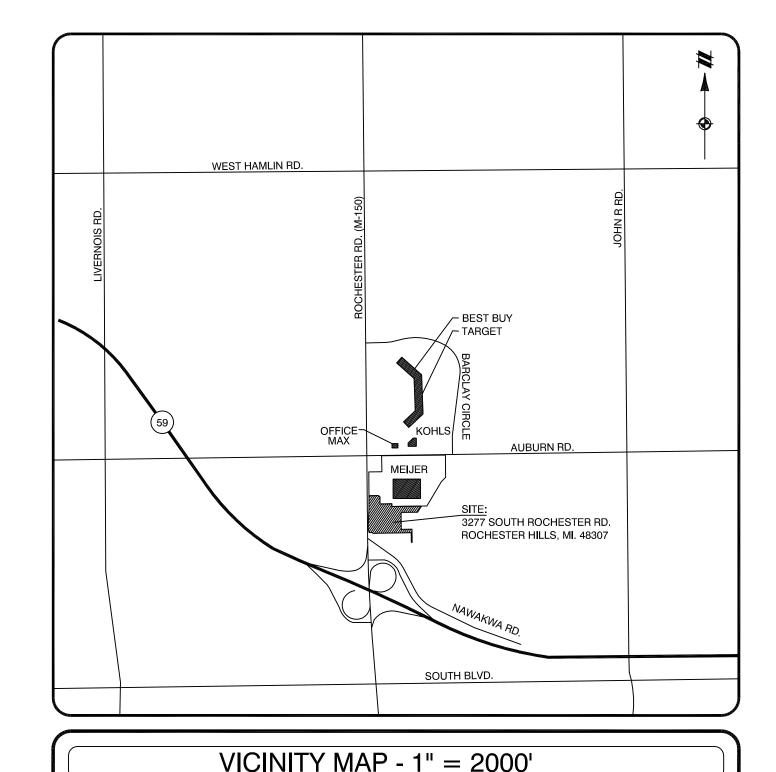
MR. STEVE PLAWINSKI **COMSUMERS ENGERY (GAS)** 1030 FEATHERSTONE ROAD PONTIAC. MI 48342 (248) 858-4448

MR. JEFF HEATH SBC (TELEPHONE) **54 NORTH MILLS STREET** PONTIAC. MI 48342 (248) 456-0873

MS. HELEN LEE DTE ENERGY (ELECTRIC) 2000 2ND AVENUE ROOM 518 S.B. DETROIT, MI 48226 (313) 235-9043



CITY OF ROCHESTER HILLS OAKLAND COUNTY, MICHIGAN SITE PLAN

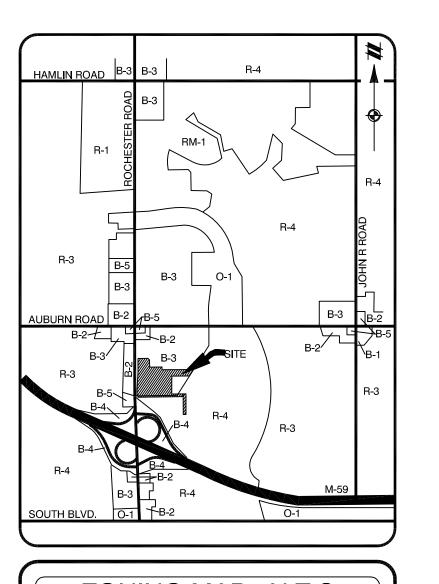


LOWE'S LEGAL DESCRIPTION

A parcel of land located in the Northwest 1/4 of Section 35, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County Michigan, described as: Commencing at the Northwest corner of said Section 35; thence S02°00'59"E (recorded as S00°11'30"W) 1083.23 feet along the West line of said Section 35; thence N87°45'48"E 87.00 feet to the Easterly right of way line of Rochester Road (variable width) for a PLACE OF BEGINNING; thence N02°00'59"W 186.35 feet along said line; thence N87°45'48"E 211.98 feet; thence S50°46'36"E 206.76 feet; thence S02°12'28"E 49.54 feet; thence N87°47'32"E (recorded as N87°45'48"E) 145.23 feet; thence S02°04'09"E 38.36 feet; thence N87°48'01"E 785.96 feet to the Westerly Line of Wildflower Subdivision, as recorded in Liber 200, Page 10 through 15, Oakland County Records; thence S30°02'05"W 632.83 feet (recorded as S34°57'33"W) along said Westerly line; thence S02°06'55"E 60.03 feet (recorded as S02°00'59"E 60.00 feet); thence N87°34'47"E 297.89 feet (recorded as N87°37'47"E 297.83 feet); thence S02°33'02"E 291.59 feet (recorded as S02°19'22"E 292.08 feet); thence S03°18'54"E 19.76 feet (recorded as S01°51'30"W 19.21 feet); thence S89°54'39"W 23.97 feet (recorded as N85°18'00"W 23.90 feet); thence N03°00'10"W 285.39 feet (recorded as N01°51'30"E 285.33 feet); thence S87°30'33"W 271.79 feet (recorded as S87°37'47"W); thence S87°24'08"W (recorded as N87°44'12"W) 853.29 feet; thence N49°58'20"W 36.88 feet (recorded as N45°06'40"W 36.92 feet); thence S87°22'45"W (recorded S87°23'56"W) 83.97 feet; thence N02°00'59"W 35.11 feet (recorded as 35.00 feet); thence S87°20'51"W 19.90 feet (recorded as S87°23'56"W 20.00 feet) to the Easterly Right-of-Way Line of Rochester Road; thence the following three courses along said Easterly Right-of-way of Rochester Road: N02°00'59"W 140.05 feet (recorded 140.00 feet), N01°23'38"E (recorded as N01°24'48"E) 351.01 feet and N01°57'46"W (recorded as N02°00'59"W) 115.27 feet to the Place of Beginning, containing 18.07 acres or land, more or less, subject to easements, conditions, restrictions, and exceptions, if any.

SHEET INDEX

- SP-01 COVER SHEET SP-02 TOPOGRAPHICAL SURVEY
- SP-03 TOPOGRAPHICAL SURVEY
- SP-04 TOPOGRAPHICAL SURVEY
- SP-05 EXISTING UTILITY SCHEDULE
- SP-06 TREE SURVEY / TREE REMOVAL
- SP-07 TREE SURVEY / TREE REMOVAL
- SP-08 DEMOLITION PLAN
- SP-09 DEMOLITION PLAN SP-10 DEMOLITION PLAN
- SP-11 DEMOLITION PLAN
- SP-12 OVERALL SITE LAYOUT PLAN
- SP-13 SITE LAYOUT PLAN SP-14 SITE LAYOUT PLAN
- SP-15 SITE LAYOUT PLAN
- SP-16 OVERALL GRADING PLAN
- SP-17 OVERALL GRADING PLAN
- SP-18 OVERALL GRADING PLAN
- SP-19 OVERALL UTILITY PLAN
- SP-20 OVERALL UTILITY PLAN SP-21 OVERALL UTILITY PLAN
- SP-22 STORM SEWER PLAN
- SP-23 STORM SEWER PLAN
- SP-24 STORM SEWER PLAN
- SP-25 OVERALL DRAINAGE AREA PLAN
- SP-26 DRAINAGE AREA PLAN
- SP-27 DRAINAGE AREA PLAN SP-28 STORM SEWER CALCULATIONS
- SP-29 LANDSCAPE PLAN
- SP-30 LANDSCAPE PLAN
- SP-31 LANDSCAPE PLAN SP-32 LANDSCAPE NOTES AND DETAILS
- SP-33 PHOTOMETRIC PLAN
- SP-34 PHOTOMETRIC PLAN
- SP-35 PHOTOMETRIC DETAILS
- SP-36 IRRIGATION PLAN SP-37 IRRIGATION PLAN
- SP-38 IRRIGATION DETAILS
- SP-39 LOWE'S STANDARD DETAILS
- SP-40 LOWE'S STANDARD DETAILS
- SP-41 LOWE'S STANDARD DETAILS
- SP-42 AUTOTURN EXHIBIT (FIRE TRUCK)
- SP-43 AUTOTURN EXHIBIT (WB-67)
- SP-44 STORM SEWER DETAIL SHEET
- SP-45 CITY OF ROCHESTER HILLS EROSION & SEDIMENT CONTROL DETAILS
- SP-46 CITY OF ROCHESTER HILLS WATER MAIN DETAILS
- SP-47 CITY OF ROCHESTER HILLS WATER MAIN DETAILS
- SP-48 CITY OF ROCHESTER HILLS SANITARY SEWER DETAILS SP-49 CITY OF ROCHESTER HILLS SANITARY SEWER DETAILS
- SP-50 CITY OF ROCHESTER HILLS STORM SEWER DETAILS
- ATTACHED ARCHITECTURAL ELEVATIONS (BY OTHERS) ATTACHED ARCHITECTURAL FLOOR PLAN (BY OTHERS)



ZONING MAP - N.T.S.

CITY FILE: 05-037 NOT TO BE USED FOR CONSTRUCTION

DATE DESCRIPTION REVISED PER CITY OF ROCHESTER HILLS 77/06/06 REVISED PER CITY OF ROCHESTER HILLS P/05/06 REVISED PER CITY OF ROCHESTER HILLS

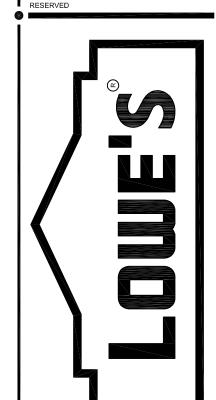
REVISIONS

LOWE'S HOME CENTERS, INC. 1605 CURTIS BRIDGE ROAD

REEC DOCK

WILKESBORO, NC 28697 336.658.4000 (V) 336.658.3257 (I

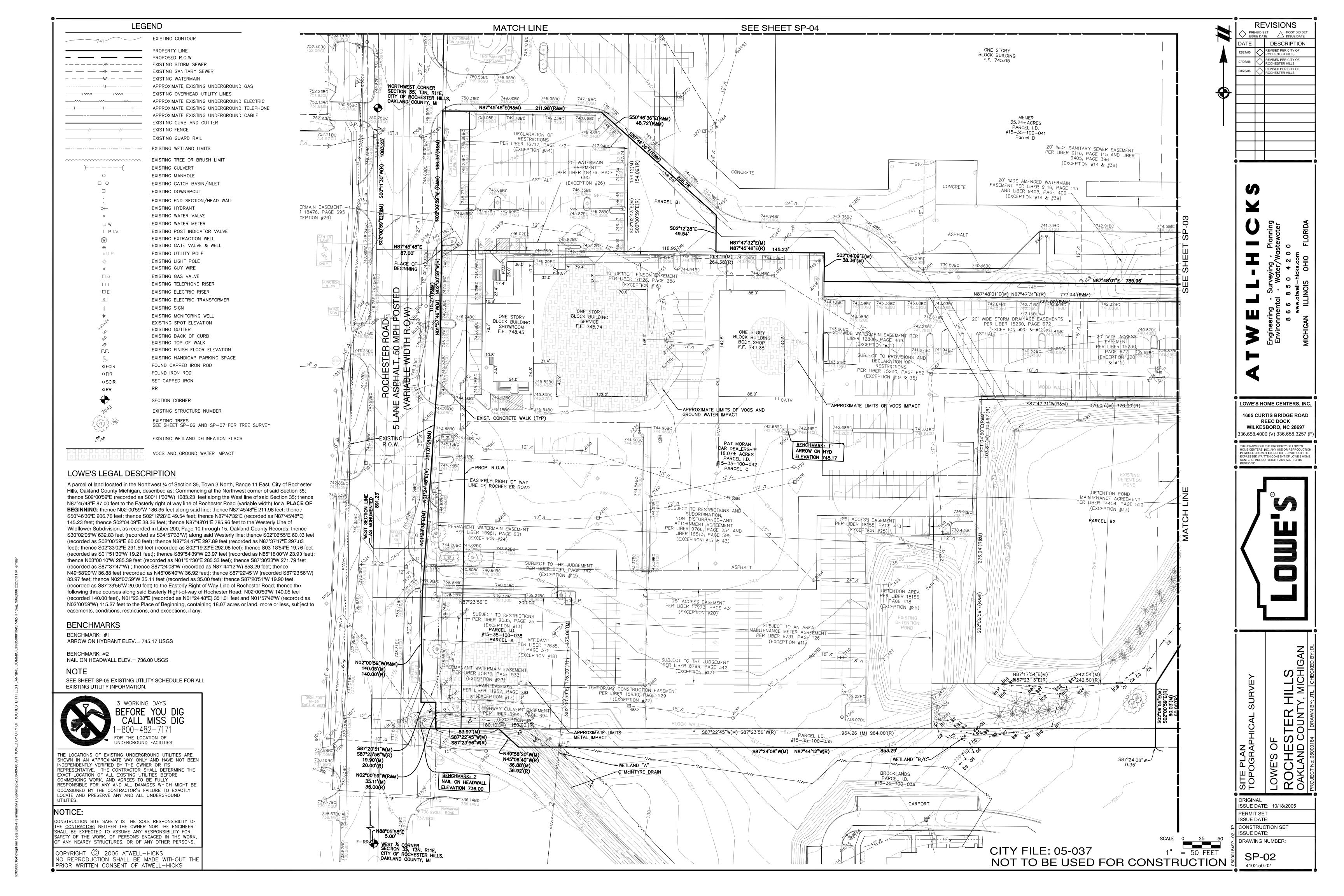
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ORIGINAL ISSUE DATE: 10/18/2005 PERMIT SET ISSUE DATE: CONSTRUCTION SET ISSUE DATE:

DRAWING NUMBER:

SP-01 4102-50-01



A parcel of land located in the Northwest 1/4 of Section 35, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County Michigan, described as: Commencing at the Northwest corner of said Section 35; thence S02°00'59"E (recorded as S00°11'30"W) 1083.23 feet along the West line of said Section 35; thence N87°45'48"E 87.00 feet to the Easterly right of way line of Rochester Road (variable width) for a **PLACE OF BEGINNING**; thence N02°00'59"W 186.35 feet along said line; thence N87°45'48"E 211.98 feet; thence S50°46'36"E 206.76 feet; thence S02°12'28"E 49.54 feet; thence N87°47'32"E (recorded as N87°45'48"E) 145.23 feet; thence S02°04'09"E 38.36 feet; thence N87°48'01"E 785.96 feet to the Westerly Line of Wildflower Subdivision, as recorded in Liber 200, Page 10 through 15, Oakland County Records; thence S30°02'05"W 632.83 feet (recorded as S34°57'33"W) along said Westerly line; thence S02°06'55"E 60.03 feet (recorded as S02°00'59"E 60.00 feet); thence N87°34'47"E 297.89 feet (recorded as N87°37'47"E 297.83 feet); thence S02°33'02"E 291.59 feet (recorded as S02°19'22"E 292.08 feet); thence S03°18'54"E 19.76 feet (recorded as S01°51'30"W 19.21 feet); thence S89°54'39"W 23.97 feet (recorded as N85°18'00"W 23.90 feet); thence N03°00'10"W 285.39 feet (recorded as N01°51'30"E 285.33 feet); thence S87°30'33"W 271.79 feet (recorded as S87°37'47"W); thence S87°24'08"W (recorded as N87°44'12"W) 853.29 feet; thence N49°58'20"W 36.88 feet (recorded as N45°06'40"W 36.92 feet); thence S87°22'45"W (recorded S87°23'56"W) 83.97 feet; thence N02°00'59"W 35.11 feet (recorded as 35.00 feet); thence S87°20'51"W 19.90 feet (recorded as S87°23'56"W 20.00 feet) to the Easterly Right-of-Way Line of Rochester Road; thence the following three courses along said Easterly Right-of-way of Rochester Road: N02°00'59"W 140.05 feet (recorded 140.00 feet), N01°23'38"E (recorded as N01°24'48"E) 351.01 feet and N01°57'46"W (recorded as N02°00'59"W) 115.27 feet to the Place of Beginning, containing 18.07 acres or land, more or less, subject to easements, conditions, restrictions, and exceptions, if any.

BENCHMARKS

BENCHMARK: #1 ARROW ON HYDRANT ELEV. = 745.17 USGS

BENCHMARK: #2 NAIL ON HEADWALL ELEV.= 736.00 USGS

SEE SHEET SP-05 EXISTING UTILITY SCHEDULE FOR ALL EXISTING UTILITY INFORMATION.

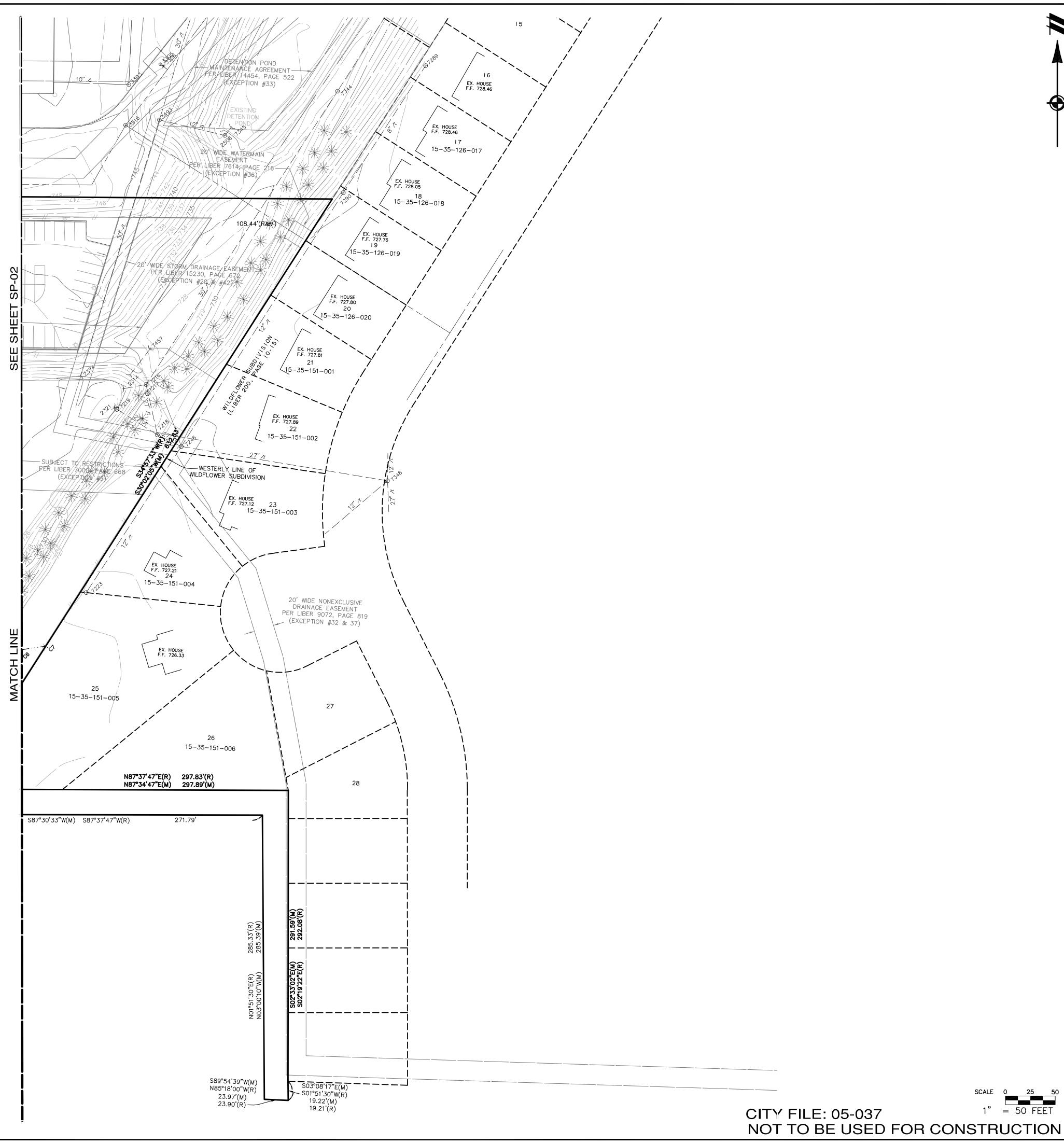


BEFORE YOU DIG CALL MISS DIG FOR THE LOCATION OF UNDERGROUND FACILITIES

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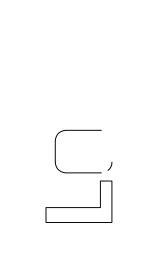


REVISIONS PRE-BID SET POST BID SET ISSUE DATE DATE DESCRIPTION /21/05 REVISED PER CITY OF ROCHESTER HILLS 7/06/06 REVISED PER CITY OF ROCHESTER HILLS 08/28/06 REVISED PER CITY OF ROCHESTER HILLS

LOWE'S HOME CENTERS, INC. 1605 CURTIS BRIDGE ROAD REEC DOCK **WILKESBORO, NC 28697** 336.658.4000 (V) 336.658.3257 (F

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IA



ISSUE DATE: 10/18/2005 PERMIT SET ISSUE DATE: CONSTRUCTION SET SSUE DATE: DRAWING NUMBER:

4102-50-03

1" = 50 FEET

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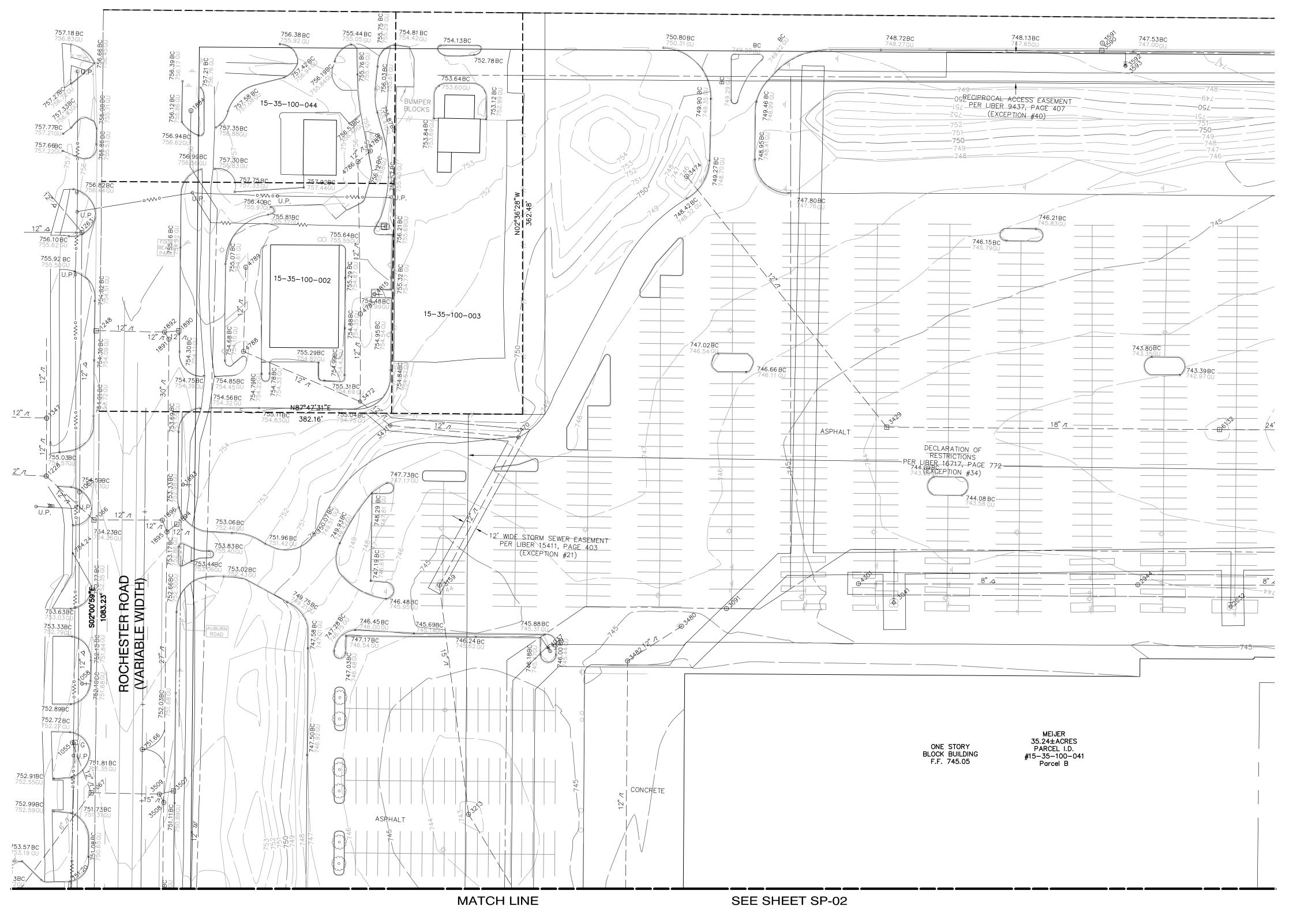
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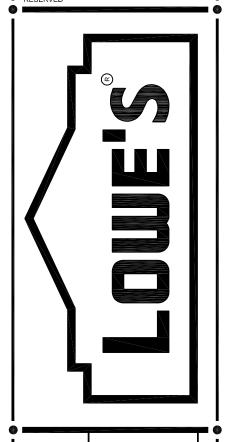


PRE-BID SET POST BID SET ISSUE DATE DATE DESCRIPTION REVISED PER CITY OF ROCHESTER HILLS REVISED PER CITY OF ROCHESTER HILLS REVISED PER CITY OF ROCHESTER HILLS

REVISIONS

LOWE'S HOME CENTERS, INC. 1605 CURTIS BRIDGE ROAD REEC DOCK **WILKESBORO, NC 28697** 336.658.4000 (V) 336.658.3257 (F

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ORIGINAL ISSUE DATE: 10/18/2005 PERMIT SET ISSUE DATE: CONSTRUCTION SET SSUE DATE: DRAWING NUMBER:

SP-04 4102-50-04

1" = 50 FEET

CITY FILE: 05-037 NOT TO BE USED FOR CONSTRUCTION

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3 WORKING DAYS
BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171
FOR THE LOCATION OF
UNDERGROUND FACILITIES

<u>#</u> 1013 1014	<u>I.D.</u> w1 s10	STRUCTURE HYDRANT SANITARY SEWER MANHOLE	ELEVATION 738.53 737.77	10" INV. N	<u>DIP</u> 14.75	<u>INVERT</u> 723.02	<u>COMMENTS</u>
			737.77 737.77	10" INV. W 10" INV. E	15.30 14.95	722.47 722.82	
			746.23 739.27	12" INV WSW 6" INV S	5.30 5.35	740.93 733.92	
1015	w2	GATE VALVE & WELL	739.27	E-W	6.20	733.92	TOP OF PIPE
1017	r114	CATCH BASIN	737.14 737.14	12" INV E 12" INV S		737.14	
1022	s9	SANITARY SEWER MANHOLE	740.53	10" INV N	14.00	737.14 726.53	
1024	r106	CATCH BASIN	740.53 739.27	10" INV S 12" INV E	16.30 5.75	724.23 733.52	
1031	s8	SANITARY SEWER MANHOLE	747.28	10" INV NE	16.10	731.18	
			747.28 747.28	10" INV S 8" INV W	16.20 15.90	731.08 731.38	
1039	s7	SANITARY SEWER MANHOLE	747.24	10" INV N	15.15	732.09	
1050	26	CANITADY CEMED MANILOLE	747.24 750.38	10" INV SSW 12" INV N	15.15	732.09 736.03	
1050	s6	SANITARY SEWER MANHOLE	750.38	12" INV N 12" INV S	14.35 14.35	736.03	
1055 1058	r111	CATCH BASIN	752.37 752.46	12" INV SE	3.90	748.47 752.46	
1056	w43	HYDRANT SANITARY SEWER MANHOLE	752.46	10" INV N	16.00	732.46	
4000	-01	CATCLLDACIN	754.36	10" INV S 12" INV E	16.10	738.26	
1066	r91	CATCH BASIN	752.72 752.72	8" INV NW	7.80 7.50	744.92 745.22	
1067	r95	CATCH BASIN	750.81	12" INV NW 12" INV E	3.64 7.32	747.17 743.49	
1068	r98	CATCH BASIN	750.81 749.11	12" INV E 15" INV E	7.32	743.49	
1069	r102	CATCH BASIN	746.23	15" INV E	7.50	738.73	
1109 1228	r107 r118	CATCH BASIN STORM SEWER MANHOLE	742.12 754.66	12" INV E 15" INV W	5.00 7.85	737.12 746.81	
			754.66 754.66	8" INV SE 12" INV N	7.85 7.00	746.81 747.66	
1248	r87	CATCH BASIN	754.00	12" INV ENE	4.70	747.00	
1263	s1	SANITARY SEWER MANHOLE	755.79 755.79	12" INV S 12" INV NW	7.70 7.55	748.09 748.24	
			755.79	12" INV WNW	6.80	748.99	
1347	r117	STORM SEWER MANHOLE	755.45 755.45	12" INV S	7.70	747.75 747.95	
			755.45 755.45	12" INV N 12" INV W	7.50 7.00	747.95 748.45	
1510 1567	r44 F	ELECTRIC MANHOLE	751.66	4011 IVIV 1.V.		751.66	
1567	r115	CATCH BASIN	737.41 737.41	12" INV W 12" INV NE	5.20 5.20	732.21 732.21	
1681	w10	HYDRANT	748.67			748.67	
1688 1709	w5 r12	HYDRANT 12" CONC. CULVERT	745.05 727.64			745.05 727.64	
1713	w3	GATE VALVE & WELL	737.10	E-W	6.60	730.50	TOP OF PIPE
1719	s11	SANITARY SEWER MANHOLE	736.16 736.16	10" INV E 10" INV W	14.55 14.55	721.61 721.61	
4=		OATOUR SOU	736.16	8" INV N	13.75	722.41	
1724	r105	CATCH BASIN	739.47 739.47	12" INV SE 12" INV W	6.30	733.17 733.47	
1884	w13	GATE VALVE & WELL	756.63	N-S	7.10	749.53	TOP OF PIPE
1890 1891	r85 r88	CATCH BASIN STORM SEWER MANHOLE	754.08 754.44	12" INV W 30" INV N	3.65 10.50	750.43 743.94	
	. 50		754.44	30" INV S	10.40	744.04	
1892	r86	STORM SEWER MANHOLE	754.44 754.60	12" INV N-W 12" INV E	7.85 6.00	746.59 748.60	
1002	100	OTOTAW GEVVERY WATER	754.60	12" INV W	6.00	748.60	
1893	w12	HYDRANT	754.60 753.78	12" INV SE	7.54	747.06 753.78	
1894	r92	CATCH BASIN	752.88	12" INV S.W	5.40	747.48	
1895	r89	STORM SEWER MANHOLE	753.15 753.15	12" INV NE 30" INV N	6.60 10.40	746.55 742.75	
			753.15	27" INV S	10.40	742.75	
1896	r90	STORM SEWER MANHOLE	753.15 753.20	12" INV NW 12" INV SE	8.60 8.50	744.55 744.70	
1000	130	OTOTAW GEVVER WATER	753.20	12" INV W	8.40	744.80	
2058	w8	HYDRANT	753.20 743.66	6" INV NE	6.00	747.20 743.66	
2061	r30	CATCH BASIN	742.99	15" INV W	9.35	733.64	
2067	r29	CATCH BASIN	742.99 740.90	15" INV SE 18" INV E	9.35 8.00	733.64 732.90	
2007	123	CATCIT BASIN	740.90	15" INV NW	8.10	732.80	
2074	r34	CATCH BASIN	740.90 737.75	27." INV S 15" INV E	8.20 4.15	732.70 733.60	
2074	134	CATCIT BASIN	737.75	18" INV W	4.15	733.60	
2075	r35	CATCH BASIN	737.72	15" INV W	4.05	733.67	
2108	r23	CATCH BASIN	740.77 740.77	12" INV W 6" INV NE	3.85 3.30	736.92 737.47	
2115	r8	CATCH BASIN	738.78 738.78	18" INV E 18" INV W	7.00 6.50	731.78 732.28	
			738.78	12" INV S	5.30	733.48	
2137	r10	CATCH BASIN	738.44 738.44	15" INV NE 15" INV W	4.50 4.45	733.94 733.99	
2148	r36	CATCH BASIN	743.32	6" INV E	3.75	739.57	
2155	r31	CATCH BASIN	743.32 744.03	8" INV W 15" INV E	3.65 9.35	739.67 734.68	
2100	101	O/ (TOTT B/ (OIIV	744.03	12" INV NW	9.30	734.73	
2157	r37	CATCH BASIN	744.03 744.77	8" INV W 8" INV E	5.20 6.10	738.83 738.67	
2107	107	O/ (TOTT B/ (OIIV	744.77	6" INV W	5.60	739.17	
			744.77 744.77	12" INV N 12" INV S	6.40 6.40	738.37 738.37	
2158	r38	CATCH BASIN	745.33	12 IIV 3	J.4U	745.33	FULL OF SAND
2159 2162	r39	CATCH BASIN UTILITY MANHOLE	745.36 744.26			745.36 744.26	FULL OF SAND PUMP WELL
2163		UTILITY MANHOLE	744.26			744.26	FUEL INTAKE
2164 2165		UTILITY MANHOLE UTILITY MANHOLE	744.26 744.22			744.26 744.22	RESERVOIR LID SUMP LID
2165 2180	s14	SANITARY SEWER MANHOLE	743.98	8" INV E	12.20	731.78	SUIVIT LID
2198			743.98 743.11	8" INV S 12" INV W	12.30	731.68 738.61	
2207	r19 r11	CATCH BASIN CATCH BASIN	737.96	12" INV SE	4.50 2.20	735.76	
2210	r13 r13	CATCH BASIN CATCH BASIN	737.51 737.51	8" INV W 12" INV. SE	7.00 6.69	730.51 730.47	
2218	r25	CATCH BASIN	742.43	12" INV E	4.40	738.03	
2222 2228	r21 r15	CATCH BASIN CATCH BASIN	742.99 737.59	6" INV NE 6" INV S	2.50 2.90	740.49 734.69	PVC
2232	r15 r22	CATCH BASIN	743.40	6" INV NE	2.20	741.20	PVC
2220			743.40	12" INV SE	3.40 5.35	740.00 739.73	
2238 2241	r33 r32	CATCH BASIN CATCH BASIN	745.08 744.46	12" INV E 12" INV SE	5.35 8.45	739.73 736.01	
_			744.46	12" INV W 8" INV SW	5.65	738.81	
2290	r24	CATCH BASIN	744.46 742.64	12" INV E	4.90 4.65	739.56 737.99	
2294	w6	HYDRANT	742.64 744.89	12" INV W	4.60	738.04 744.89	
2314	r60	30" CONC. CULVERT	724.26	60"		724.26	
2321	r59	12" CONC. CULVERT	723.15 729.21	12" INV. E		723.15 729.21	
2357 2364	r40 r57	24" CONC. CULVERT 15" CONC. CULVERT	729.21 728.98	15" INV. N		729.21 728.98	
2374	r61	30" CONC. CULVERT	725.10	30" INV. NE		725.10	
2419 2425	r26 r5	27" CONC. CULVERT 18" CONC. CULVERT	732.34 730.95			732.34 730.95	
				40H INB / 14			
2429 2433	r7 r16	18" CONC. CULVERT 24" CONC. CULVERT	732.45 733.20	18" INV W		731.50 733.20	
2440	w29	HYDRANT	744.26			744.26	
2455 2458	w28 r58	HYDRANT CATCH BASIN	741.73 740.26	15" INV S	9.00	741.73 731.26	
			740.26	12" INV N	6.45	733.81	
2498 2506	r64 r63	12" CONC. CULVERT CATCH BASIN	728.41 731.32	12" INV N	3.95	728.41 727.37	
			731.32	12" INV W	4.15	727.17	
2535	r4	CATCH BASIN	736.87 736.87	18" INV N 18" INV S	5.99 6.00	730.88 730.87	
2565	r116	60" CONC. CULVERT	729.00			729.00	
2793 2894	r28 s19	CATCH BASIN SANITARY SEWER MANHOLE	738.04 743.09	12" INV W 10" INV N	4.45 7.30	733.59 735.79	
- •			743.09	10" INV S	7.30	735.79	
	w36	HYDRANT	743.09 744.63	8" INV W	7.25	735.84 744.63	
2932		SANITARY SEWER MANHOLE	744.25	8" INV E	6.90	737.35 737.35	
2932 2944	s20		744.25	8" INV W	6.90	13135	

3091 3159	w34 r47	GATE VALVE & WELL CATCH BASIN	745.55 743.86 743.86	15" INV S 12" INV NE	4.55 4.40	745.55 739.31 739.46	TOP OF PIPE VERFY PIPE SIZES VERFY PIPE SIZES
3179 3193	w33 s16	HYDRANT SANITARY SEWER MANHOLE	746.03 733.84	10" INV W	13.00	746.03 720.84	
3195	r14	CATCH BASIN	733.84 737.52	10" INV SE 8" INV E	13.10 6.10	720.74 731.42	6" N INV. NEEDED
3196	r20	CATCH BASIN	743.31 743.31	12" INV NW 12" INV E	3.80 4.00	739.51 739.31	
3198	r27	CATCH BASIN	737.96 737.96	12" INV E 27" INV N	4.50 5.40	733.46 732.56	
3199	s15	SANITARY SEWER MANHOLE	737.96 741.57	27" INV S 8" INV ENE	5.45 8.20	732.51 733.37	
3200	s12	SANITARY SEWER MANHOLE	741.57 738.15	8" INV SW 8" INV E	9.00 14.10	732.57 724.05	
			737.52 738.15	6" INV N 8" INV S	5.50 14.20	732.02 723.95	
3213	r46	CATCH BASIN	738.15 742.73	8" INV E 15" INV N	8.50 5.50	729.65 737.23	VERFY PIPE SIZES
3270	w31	HYDRANT	742.73 744.95	18" INV SE	5.60	737.13 744.95	VERFY PIPE SIZES
3271 3280	r45 r42	CATCH BASIN CATCH BASIN	744.66 743.29	12" INV NE 24" INV W	5.20 10.95	739.46 732.34	
3303	s24	SANITARY SEWER MANHOLE	743.29 742.87	24" INV SE 10" INV N	11.90 6.30	731.39 736.57	
3305	w25	HYDRANT	742.87 743.47	10" INV W	6.30	736.57 743.47	
3306 3314	w26 s23	WATER SHUT OFF VALVE SANITARY SEWER MANHOLE	743.55 739.94 739.94	10" INV N 10" INV S	3.30 3.30	743.55 736.64 736.64	
3317	r72	CATCH BASIN	739.94 739.94 738.83	6" INV W 12" INV N	2.90	737.04 732.83	
3318	r71	STORM SEWER MANHOLE	738.83 739.16	12" INV N 12" INV E 12" INV N	6.05 5.75	732.78 733.41	
3319	r73	STORM SEWER MANHOLE	739.16 739.26	12" INV N 12" INV E 27" INV N	5.75 5.85 8.25	733.31 731.01	
3313	173	STORWI GETTER MAINTOLL	739.26 739.26	12" INV W 30" INV S	6.65 8.30	732.61 730.96	
3329 3330	w20 w19	HYDRANT WATER SHUT OFF VALVE	740.41 740.69	30 1110 3	0.30	740.41 740.69	
3343		SANITARY SEWER MANHOLE	744.07 744.07	10" INV N 10" INV S	8.10 8.05	735.97 736.02	PLUGGED
3344	r69	CATCH BASIN	744.07 744.07 742.50	6" INV W 12" INV S	6.55 6.50	737.52 736.00	
3387	r74	STORM SEWER MANHOLE	740.48 740.48	24" INV W 12" INV E	4.45 5.95	736.03 734.53	
			740.48	12" INV NW	5.20	735.28	
3388	r80	STORM SEWER MANHOLE	740.48 739.41	27" INV S 12" INV W	6.00 4.35	734.48 735.06 736.76	
3392 3429	r78 r76	CATCH BASIN CATCH BASIN	742.26 743.37 743.37	12" INV SE 12" INV NW 12" INV E	5.50 5.10	736.76 738.27 738.17	
3470	r48	STORM SEWER MANHOLE	748.34	12" INV SW	5.20 4.70	743.64	VERFY PIPE SIZES
3471	r49	CATCH BASIN	748.34 749.64 749.64	12" INV W 12" INV NW 12" INV E	3.60 3.60 3.75	744.74 746.04 745.89	VERFY PIPE SIZES VERFY PIPE SIZES
3472	r50	STORM SEWER MANHOLE	754.50	12" INV SE	6.84	747.66	
0.17.1		0.4.70.1.7.4.0.11	754.50 754.50	12" INV N 12" INV NW	6.70 6.80	747.80 747.70	
3474 3476	r77 r67	CATCH BASIN CATCH BASIN	745.52 735.40	12" INV SE 12" INV N	5.70 4.00	739.82 731.40	
3477	r68	CATCH BASIN	735.40 735.41	12" INV S 12" INV S	4.10 3.60	731.30 731.81	
3478	r65	CATCH BASIN	734.11 734.11	12" INV SW 12" INV N	5.90 5.75	728.21 728.36	
3479	r66	CATCH BASIN	734.38 734.38	12" INV N 12" INV S	5.85 5.90	728.53 728.48	
3480 3482	r56 r55	STORM SEWER MANHOLE STORM SEWER MANHOLE	744.12 744.83	12" INV SW 12" INV S	5.75 6.80	738.37 738.03	
3483	r54	CATCH BASIN	744.83 744.66	12" INV NE 12" INV N	6.80 8.05	738.03 736.61	
3484	r44	CATCH BASIN	744.66 744.27	15" INV S 12" INV N	8.25 8.70	736.41 735.57	
			744.27 744.27	24" INV S 18" INV NW 12" INV SW	9.80 9.60	734.47 734.67	
3490	s13	SANITARY SEWER MANHOLE	744.27 738.95 737.51	8" INV N 8" INV SE	5.50 8.15	738.77 730.80	
2404	r41	CATCH DAGIN	738.95	8" INV W	7.00 8.20	730.51 730.75 732.43	
3491	141	CATCH BASIN	738.93 738.93	15" INV N 24" INV NW	6.50 8.60	730.33	
3492	r43	CATCH BASIN	738.93 742.80 742.80	24" INV S 24" INV N 24" INV E	8.70 9.10 9.20	730.23 733.70 733.60	
3493	r62	STORM SEWER MANHOLE	738.11 738.11	30" INV N 30" INV S	8.70 11.25	729.41 726.86	
0404	44	CATE VALVE O MELL	738.11	12" INV E	10.40	727.71	TOD OF DIDE
3494 3495	w11	GATE VALVE & WELL GATE VALVE & WELL	747.65 743.37	12" N-S 12" INV N-S	8.20 5.00	739.45 738.37	TOP OF PIPE
3497 3498	w14 w41	GATE VALVE & WELL WATER SHUT OFF VALVE	743.65 741.76	12" E-W	5.70	737.95 741.76	TOP OF PIPE
3499	r104	STORM SEWER MANHOLE	739.35 739.35	30" INV S 30" INV N	7.85 7.30	731.50 732.05	
3501	r103	CATCH BASIN	739.35 745.80	12" INV NW 15" INV WSW	6.40 8.00	732.95 737.80	
3502	r100	STORM SEWER MANHOLE	746.12 746.12	30" INV S 27" INV. N	10.55	735.57 735.57	
055		OTODIA STUTE	746.12 746.12	15" INV E 15" INV NW	8.15 8.05	737.97 738.07	00:11 = 1:11
3503 3504	r101 w42	STORM SEWER MANHOLE GATE VALVE & WELL	746.36 746.33	12" N-S	4.85	746.36 741.48	COULD NOT OPEN TOP OF PIPE
3505	r99	CATCH BASIN	749.07 749.53	12" INV WSW 12" INV W	7.20 8.30	741.87 741.23	SE HITS 27" LINE
3506	r97	STORM SEWER MANHOLE	749.53	12" INV SE 27" INV N-S	8.30	741.23	
3507 3508	r96 r93	CATCH BASIN STORM SEWER MANHOLE	750.73 751.19	15" INV W 27" INV N	6.55 10.70	744.18 740.49	
			751.19 751.19	27" INV S 15" INV NW	10.62 8.60	740.57 742.59	
3509	r94	STORM SEWER MANHOLE	751.30 751.30	15" INV W 15" INV E	8.40 7.15	742.90 744.15	
3510	s5	SANITARY SEWER MANHOLE	751.30 746.03	15" INV SE 10" INV S	8.60 11.90	742.70 734.13	
3510 3511	s25 s18	SANITARY SEWER MANHOLE SANITARY SEWER MANHOLE	746.03 742.83	10" INV S 10" INV N	11.90 7.80	734.13 735.03	
3516	w27	GATE VALVE & WELL	742.83 745.83	10" INV S	7.85 12.20	734.98 733.63	FULL OF WATER
3517 3519	w24 w23	GATE VALVE & WELL POST INDICATOR VALVE	738.56 739.76		9.30	729.26 739.76	FULL OF WATER
3520 3521	w21 w18	GATE VALVE & WELL GATE VALVE & WELL	739.04 741.70		8.00 8.50	731.04 733.20	FULL OF WATER FULL OF WATER
3522 3524	w37 w30	GATE VALVE & WELL GATE VALVE & WELL	741.85 744.99	N-S	5.50 5.90	736.35 739.09	TOP OF PIPE FULL OF WATER
3590 3591	r81 r82	CATCH BASIN STORM SEWER MANHOLE	747.11 747.43	12" INV N 12" INV W	4.00 6.40	743.11 741.03	
	. 52		747.43 747.43	12" INV E 12" INV S	6.60 6.40	740.83 741.03	
3592 3593	w15 w16	WATER SHUT OFF VALVE HYDRANT	747.98 747.59	, 0	-, 10	747.98 747.59	
3669 3670	r109 r110	CATCH BASIN STORM SEWER MANHOLE	742.69 743.02	12" INV N 12" INV S	3.45 6.45	739.24 736.57	
5510	1110	O TOTAL OLIVER IVIANAULE	743.02 743.02 743.02	12" INV S 12" INV W 12" INV E	6.45 6.65	736.57 736.57 736.37	
4037 4301	w32 s21	WATER SHUT OFF VALVE SANITARY SEWER MANHOLE	746.01 744.37	8" INV E	5.90	736.37 746.01 738.47	
			744.37 744.37 744.75	8" INV E 6" INV. S	5.90	738.47 738.57 744.75	
4409 4589 4785	w22 w9	WATER SHUT OFF VALVE HYDRANT STORM SEWER MANHOLE	745.51	1011 IVIV / V I	5 FO	745.51	
4785	r53	STORM SEWER MANHOLE	753.42 753.42	12" INV N 12" INV S	5.50 5.50	747.92 747.92	
4786	r83	STORM SEWER MANHOLE	755.85 755.85	12" INV S 12" INV NE	6.57 5.42	749.28 750.43	
4787 4788	r84 r51	STORM SEWER MANHOLE STORM SEWER MANHOLE	754.68 753.69	12" INV SW 12" INV SE	3.58 5.55	751.10 748.14	
4789	r52	STORM SEWER MANHOLE	753.69 753.58	12" INV N 12" INV S	5.55 4.07	748.14 749.51	
4815 4882	w17	HYDRANT CATCH BASIN	754.76 737.92	12" INV NW	2.75	754.76 735.17	
				15" INN/ F	2.05	724.07	

5092 5314			742.53	15" INV SE	6.45	736.08	
			742.53	12" INV E	5.65	736.88	
			742.53	12" INV W	5.70	736.83	
	w7	HYDRANT	742.71		v	742.71	
	r112	STORM SEWER MANHOLE	744.49			744.49	NO APPARENT PIPE
315	r113	STORM SEWER MANHOLE	744.72			744.72	NO APPARENT PIPE
6112	r2	CATCH BASIN	724.94	12" INV SW	6.65	718.29	
7112	12	CATCH BASIN	724.94	12" INV SVV	6.55	718.39	
6113	· · · 40	HYDRANT	727.08	12 1110 3	0.55	710.39	
	w40						
5114	w39	WATER SHUT OFF VALVE	727.08		0.00	727.08	TOD OF DIDE
3115	w38	GATE VALVE & WELL	725.80	E-W	6.00	719.80	TOP OF PIPE
3116	r1	CATCH BASIN	725.01	12" INV S	8.00	717.01	
			725.01	12" INV NE	7.75	717.26	
3132	r75	CATCH BASIN	741.85	18" INV W	4.50	737.35	
			741.85	24" INV E	4.55	737.30	
3133	s17	SANITARY SEWER MANHOLE	746.42	10" INV S	12.15	734.27	
			746.42	12" INV E	12.30	734.12	
			746.42	12" INV W	12.30	734.12	
7216		STORM SEWER MANHOLE	729.50	30" INV NE	5.30	724.20	
			729.50	30" INV SW	5.22	724.28	
				27" INV SE			
7217		STORM SEWER MANHOLE	730.14	27 1111 02			LID ONLY - FILLED W/DEBRIS
7218		STORM SEWER MANHOLE	728.72	27" INV NW	6.68	722.04	EID GIVET TIEEED VVIDEDING
210		GIORIVI GEVVER IVIAINHOLE					
7040		OTODA OEMED MANUSIE	728.72	27" INV SE	9.80	718.92	CTANDING 40" DIDE
7219		STORM SEWER MANHOLE	729.27	12" INV NW	6.30	722.97	STANDING 48" PIPE
			729.27	27" INV SE	6.70	722.57	
7223		STORM SEWER MANHOLE	725.49	12" INV NE	3.95	721.54	
7246		STORM SEWER MANHOLE	724.59	12" INV SW	3.94	720.65	
			724.59	12" INV NE	4.78	719.81	
			724.59	27" INV NW	5.95	718.64	
			724.59	27" INV E	6.03	718.56	
7289		STORM SEWER MANHOLE	726.40	8" INV SW	3.88	722.52	
7290		STORM SEWER MANHOLE	724.58	8" INV NE	3.20	721.38	
230		CTORWI GEVVER WIN WITH TOLE	724.58	12" INV SW	3.35	721.23	
7343		STORM SEWER MANHOLE	733.40	30" INV NE	8.10	721.23	
343		STORINI SEVVER INIAINHOLE					
			733.40	30" INV SW	8.34	725.06	
			733.40	18" INV N	8.20	725.20	
7344		STORM SEWER MANHOLE	731.98	30" INV NE	7.52	724.46	
			731.98	30" INV SW	7.68	724.30	
7345		CONCRETE CULVERT	727.69			733.91	
7346		CATCH BASIN	737.86	12" INV N	3.15	734.71	
7348		STORM SEWER MANHOLE	723.11	27" INV S	7.90	715.21	
			723.11	27" INV W	7.84	715.27	
			723.11	12" INV N	7.04	716.07	
			723.11	12" INV SW	6.00	717.11	
7448		CATCH BASIN	739.88	12" INV E	5.20	734.68	
440		CATCH BASIN	739.88	6" INV W		734.00	
7450		CATCLLDACIN			3.10		
7450		CATCH BASIN	740.20	12" INV E	8.70	731.20	
			740.20	12" INV W	6.25	733.95	
7451		CATCH BASIN	735.92	15" INV N	5.15	730.77	
			735.92	15" INV S	5.20	730.72	
			735.92	12" INV W	4.70	731.22	
7454		CATCH BASIN	740.65	24" INV E	4.80	735.85	
			740.65	24" INV W	4.65	736.00	
7455		CATCH BASIN	740.76	24" INV E	4.30	736.46	
-			740.76	24" INV W	4.30	736.46	
7456		CATCH BASIN	740.86	24" INV E	4.20	736.66	
.55		3, (13)1 5, (3)14	740.86	24" INV W	4.20	736.66	
7457		12" CONC. CULVERT	725.43	∠¬ IINV VV	7.20	7 30.00	
				CU INIV/ NIT	2.75	747.00	
7462		CATCH BASIN	751.44	6" INV NE	3.75	747.69	
1400		O A NITA DY A A A NI I SI T	751.44	12" INV S	4.70	746.74	10.75.700.05.050
7463		SANITARY MANHOLE	750.56	12" INV. N	14.40	736.16	13.75 TOP OF PIPE
			750.56	10" INV S	14.54	736.02	
7465		CATCH BASIN	751.64	12" INV N	5.05	746.59	
			751.64	12" INV W	6.24	745.40	
7472		CATCH BASIN	750.33	4" INV NE		749.33	
4/2			750.33	4" INV W		749.31	
7472		CATCH BASIN	751.77	12" INV E	5.60	746.17	
7580			•				1

CITY FILE: 05-037

NOT TO BE USED FOR CONSTRUCTION

5041 r3 18" CONC. CULVERT

5089 r18 STORM SEWER MANHOLE

CATCH BASIN

CATCH BASIN

730.64

740.49 24" INV E 7.00 733.49

740.49 15" INV NW 6.35 734.14

739.78 18" INV E 7.10 732.68 739.78 18" INV SW 5.90 733.88

742.53 15" INV NW 6.45 736.08 742.53 15" INV SE 6.45 736.08



ORIGINAL ISSUE DATE: 10/18/2005

CONSTRUCTION SET

DRAWING NUMBER:

SP-05

4102-50-05

PERMIT SET

ISSUE DATE:

ISSUE DATE:

	-BID S JE DA				
DATE		DESCRIPTION			
12/21/05	\Diamond	REVISED PER CITY OF ROCHESTER HILLS			
07/06/06	\Diamond	REVISED PER CITY OF ROCHESTER HILLS			
08/28/06	\Diamond	REVISED PER CITY OF ROCHESTER HILLS			
44					
U	7				

REVISIONS

NOTES

1. APPROVED TREE PROTECTION SHALL BE ERECTED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE. THE CITY'S LANDSCAPE CONSULTANT SHALL BE NOTIFIED AFTER TREE PROTECTION IS IN PLACE, PRIOR TO CONSTRUCTION ACTIVITIES INCLUDING DELIVERY OF MATERIALS.

2. NO PERSON MAY CONDUCT ANY ACTIVITY WITH THE DRIP LINE OF ANY TREE DESIGNATED TO REMAIN, INCLUDING, BUT NOT LIMITED TO PLACING SOLVENTS, BUILDING MATERIAL, CONSTRUCTION EQUIPMENT, OR SOIL DEPOSITS WITHIN THE DRIP LINES. 3. GRADE CHANGES MAY NOT OCCUR WITH THE DRIP LINES OF PROTECTED TREES.

4. DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY REMAINING TREE. 5. ALL UTILITY SERVICE REQUEST MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT

PROTECTED TREE MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR OUTSIDE OF THE PROTECTIVE FENCE. 6. SWALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIP LINES TO PROTECTED

TREE. 7. IF TREE PROTECTION CANNOT BE MAINTAINED FOR A TREE THROUGHOUT THE

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CONSTRUCTION PERIOD, REPLACEMENT OF THAT TREE MAY BE REQUIRED PRIOR TO THE

9. ALL SAVED TREES SHALL BE IDENTIFIED WITH FLAGGING PRIOR TO ANY CONSTRUCTION ACTIVITIES.

10. SEE SHEET SP-29 THRU SP-32 FOR ALL REPLACEMENT TREE LOCATIONS. 11. ALL DEAD ASH TREES AFFECTED BY THE EMERALD ASH BORER AS WELL AS VIABLE ASH TREES THAT CERTAINLY WILL BE AFFECTED BY THE EMERALD ASH BORER, AND THAT ARE WITHIN ALL NATURAL FEATURES SETBACK AREAS MUST BE CUT DOWN FLUSH TO GRADE (NO STUMP REMOVAL).

TREE CONSERVATION ORDINANCE (TCO)

(12) $3\frac{1}{2}$ " CALIPER TREES = REQUIRED: 24

TOTAL NUMBER OF TREES SURVEYED MINUS TOTAL NUMBER OF DEAD TREES MINUS TOTAL NUMBER OF OFF-SITE TREES TOTAL NUMBER OF REGULATED TREES ON-SITE NUMBER OF REGULATED TREES TO BE REMOVED TOTAL NUMBER OF TREES TO BE PRESERVED PERCENTAGE OF TREES TO BE PRESERVED NUMBER OF REPLACEMENT CREDITS REQUIRED NUMBER OF REPLACEMENT CREDITS PLACED ON-SITE:

> PROPOSED: 24 OF 24 REPLACEMENT CREDITS PLACED ON-SITE.

> > PROP. 25' WIDE NATURAL FEATURES SETBACK

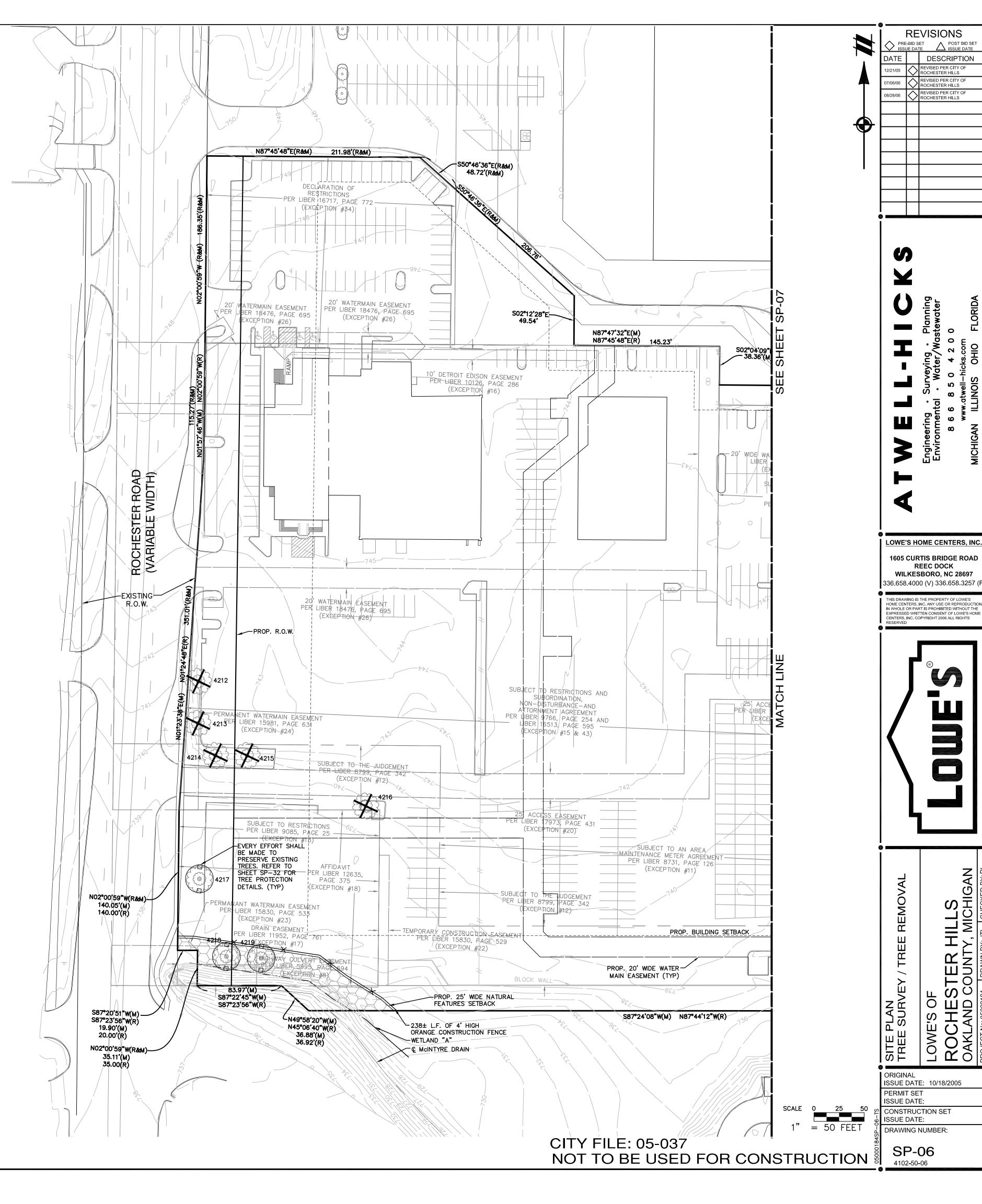
LEGEND EXIST. CONTOUR EXIST. CURB AND GUTTER _________________EXIST. FENCE EXIST. GUARD RAIL EXIST. LIBER / EASMENT BOUNDARY — — — INTERNAL BOUNDARY PROP. EASEMENT ----- EXIST. WETLAND SETBACK EXIST. SIGN EXIST. POST EXIST. FLAG POLE EXIST. HANDICAP PARKING SPACE EXIST TREE TAGS EXIST. TREE TO BE REMOVED PROP. TREE PROTECTION FENCE SEE SHEET SP-32 FOR DETAIL EXIST. DECIDUOUS TREE EXIST. EVERGREEN TREE



SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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

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REVISIONS PRE-BID SET SOUTH POST BID SET ISSUE DATE

DATE | DESCRIPTION

REVISED PER CITY OF ROCHESTER HILLS

1605 CURTIS BRIDGE ROAD

REEC DOCK

WILKESBORO, NC 28697

336.658.4000 (V) 336.658.3257 (F

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ORIGINAL

PERMIT SET SSUE DATE:

SUE DATE:

ISSUE DATE: 10/18/2005

ONSTRUCTION SET

DRAWING NUMBER:

SP-06

4102-50-06

REVISED PER CITY OF ROCHESTER HILLS

REVISED PER CITY OF ROCHESTER HILLS

REE TAG							CROWN
NUMBER 26	RED PINE	BOTANICAL NAME PINUS RESINOSA	D.B.H. (IN") 8"	GOOD	REMOVAL NO	BASE ELEVATION 730.08	HEIGHT (FT.
27	RED PINE	PINUS RESINOSA	10"	GOOD	NO	730.35	9
28 29	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	10" 10"	GOOD POOR	NO NO	730.84 732.04	9
30	RED PINE	PINUS RESINOSA	12"	POOR	NO	731.07	12
31 32	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	10" 8"	GOOD GOOD	NO NO	731.32 731.87	12 10
33	RED PINE	PINUS RESINOSA PINUS RESINOSA	12"	GOOD	NO	731.07	14
34	RED PINE	PINUS RESINOSA	10"	GOOD	NO	731.93	12
35 36	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	12" 12"	GOOD GOOD	NO NO	732.27 731.52	10
37	RED PINE	PINUS RESINOSA	12"	GOOD	NO	731.46	10
38 39	RED PINE WHITE PINE	PINUS RESINOSA PINUS STROBUS	12" 6"	GOOD GOOD	NO NO	731.71 731.72	10
40	RED PINE	PINUS RESINOSA	10"	GOOD	NO	731.65	12
41 42	RED PINE TWIN WHITE PINE	PINUS RESINOSA PINUS STROBUS	10" 9"	GOOD GOOD	NO NO	731.03 731.03	12 18
43	RED PINE	PINUS RESINOSA	10"	GOOD	NO	730.86	9
44	RED PINE	PINUS RESINOSA	10" 8"	GOOD	NO	731.11	9
45 46	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	8 10"	GOOD GOOD	NO NO	730.98 731.37	9
47	RED PINE	PINUS RESINOSA	10"	GOOD	NO	731.43	10
48 49	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	10" 10"	GOOD GOOD	NO NO	732.25 732.60	10
50	RED PINE	PINUS RESINOSA	12"	GOOD	NO	732.08	12
51	RED PINE	PINUS RESINOSA	10" 12"	GOOD	NO NO	733.71 732.86	12 14
52 53	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	12" 10"	GOOD GOOD	NO NO	732.86	13
54	RED PINE	PINUS RESINOSA	12"	GOOD	NO	732.67	10
4212	LOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS	7"	GOOD	YES	744.30	18
4213	LOCUST	GLEDITSIA TRIACANTHOS	8"	GOOD	YES	743.77	18
4214	LOCUST	VAR. INERMIS GLEDITSIA TRIACANTHOS VAR. INERMIS	6"	GOOD	YES	742.57	18
4215	LOCUST	GLEDITSIA TRIACANTHOS	6"	GOOD	YES	742.65	14
4216	MOUNTIAN ASH	SARBUS AUCUPARIA	7"	GOOD	YES	739.98	15
4217	LOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS	6"	GOOD		738.59	12
4218	LOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS	7"	GOOD	NO	737.64	14
4219	LOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS	8"	GOOD	NO	737.81	16
4239	RED PINE	PINUS RESINOSA	12"	GOOD	YES	730.18	15
4240	RED PINE	PINUS RESINOSA	14"	GOOD	YES	728.85	16
4241 4242	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	12" 10"	GOOD	YES YES	730.83 731.19	14
4243	RED PINE	PINUS RESINOSA	12"	GOOD	YES	730.67	16
4244 4245	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	14" 14"	GOOD GOOD	NO NO	731.49 730.95	14
4246	RED PINE	PINUS RESINOSA	12"	GOOD	YES	731.18	14
4247	RED PINE	PINUS RESINOSA	14"	GOOD	YES	728.92	14
4248 4249	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	12" 12"	GOOD GOOD	YES YES	731.62 730.33	14 15
4250	RED PINE	PINUS RESINOSA	12"	GOOD	NO	731.94	15
4251 4252	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	12" 16"	POOR GOOD	NO NO	730.24 730.35	15 16
4253	RED PINE	PINUS RESINOSA	10"	GOOD	NO	731.55	14
4254	RED PINE	PINUS RESINOSA	10"	GOOD	NO	730.76	14
4255 4256	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	12" 10"	GOOD GOOD	NO NO	730.96 731.53	14 15
4257	RED PINE	PINUS RESINOSA	14"	GOOD	NO	728.68	15
4258 4259	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	10" 10"	GOOD GOOD	NO NO	730.98 729.10	12 12
4260	RED PINE	PINUS RESINOSA	12"	GOOD	NO	731.28	14
4261	QUAD RED PINE	PINUS RESINOSA	10"	GOOD	NO	729.07	20
4262 4263	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	8" 10"	POOR GOOD	NO NO	730.51 729.39	10
4264	RED PINE	PINUS RESINOSA	12"	GOOD	NO	729.72	12
4265 4266	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	8" 12"	GOOD GOOD	NO NO	729.75 730.93	10 14
4266 4267	RED PINE	PINUS RESINOSA	14"	GOOD	NO	730.45	14
4268	RED PINE	PINUS RESINOSA	15"	GOOD	NO NO	730.09	13
4269 4270	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	10" 18"	POOR GOOD	NO NO	729.13 730.13	12 15
4271	RED PINE	PINUS RESINOSA	14"	GOOD	NO	728.69	12
4272 4273	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	14" 10"	GOOD GOOD	NO NO	730.29 729.11	12 8
4273 4274	RED PINE	PINUS RESINOSA	18"	GOOD	NO NO	729.11	15
4275	RED PINE	PINUS RESINOSA	8" 9"	GOOD	NO NO	729.49	10
4278 4279	TWIN WILLOW TWIN WILLOW	SALIX ALBA 'NIOBE SALIX ALBA 'NIOBE	9″ 8 "	GOOD GOOD	NO NO	726.81 726.82	25 16
4280	RED PINE	PINUS RESINOSA	15"	POOR	YES	728.49	15
4281 4282	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	7" 7"	GOOD GOOD	YES YES	730.71 731.57	15 16
4283	RED PINE	PINUS RESINOSA	6"	GOOD	YES	731.37	14
4284	RED PINE	PINUS RESINOSA	8"	GOOD	YES	733.14	15
4285 4286	RED PINE RED PINE	PINUS RESINOSA PINUS RESINOSA	9" 8"	GOOD GOOD	YES YES	732.72 734.11	16 13
	RED PINE	PINUS RESINOSA	9"	GOOD	YES	733.30	18
4287 4288	RED PINE	PINUS RESINOSA	10"	GOOD	YES	734.27	14

NOTES

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TREE CONSERVATION ORDINANCE (TCO)

(12) $3\frac{1}{2}$ " CALIPER TREES = REQUIRED: 24

ACTIVITIES.

TOTAL NUMBER OF TREES SURVEYED

MINUS TOTAL NUMBER OF DEAD TREES

MINUS TOTAL NUMBER OF OFF-SITE TREES

TOTAL NUMBER OF REGULATED TREES ON-SITE

NUMBER OF REGULATED TREES TO BE REMOVED

TOTAL NUMBER OF TREES TO BE PRESERVED

PERCENTAGE OF TREES TO BE PRESERVED

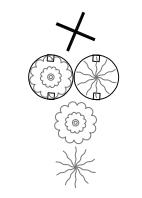
NUMBER OF REPLACEMENT CREDITS REQUIRED

NUMBER OF REPLACEMENT CREDITS PLACED ON-SITE:

PROPOSED: 24 OF 24 REPLACEMENT CREDITS PLACED ON-SITE.

LEGEND

EXIST. CONTOUR EXIST. CURB AND GUTTER // // EXIST. FENCE EXIST. GUARD RAIL ———— EXIST. LIBER / EASMENT BOUNDARY — — — — INTERNAL BOUNDARY ----- EXIST. WETLAND SETBACK EXIST. SIGN EXIST. POST EXIST. FLAG POLE EXIST. HANDICAP PARKING SPACE EXIST TREE TAGS EXIST. TREE TO BE REMOVED



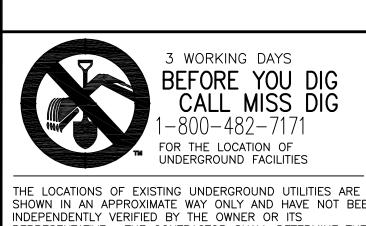
PROP. TREE PROTECTION FENCE SEE SHEET SP-32 FOR DETAIL EXIST. DECIDUOUS TREE

EXIST. EVERGREEN TREE

PROP. 25' WIDE NATURAL FEATURES SETBACK



IMPACTED WETLANDS

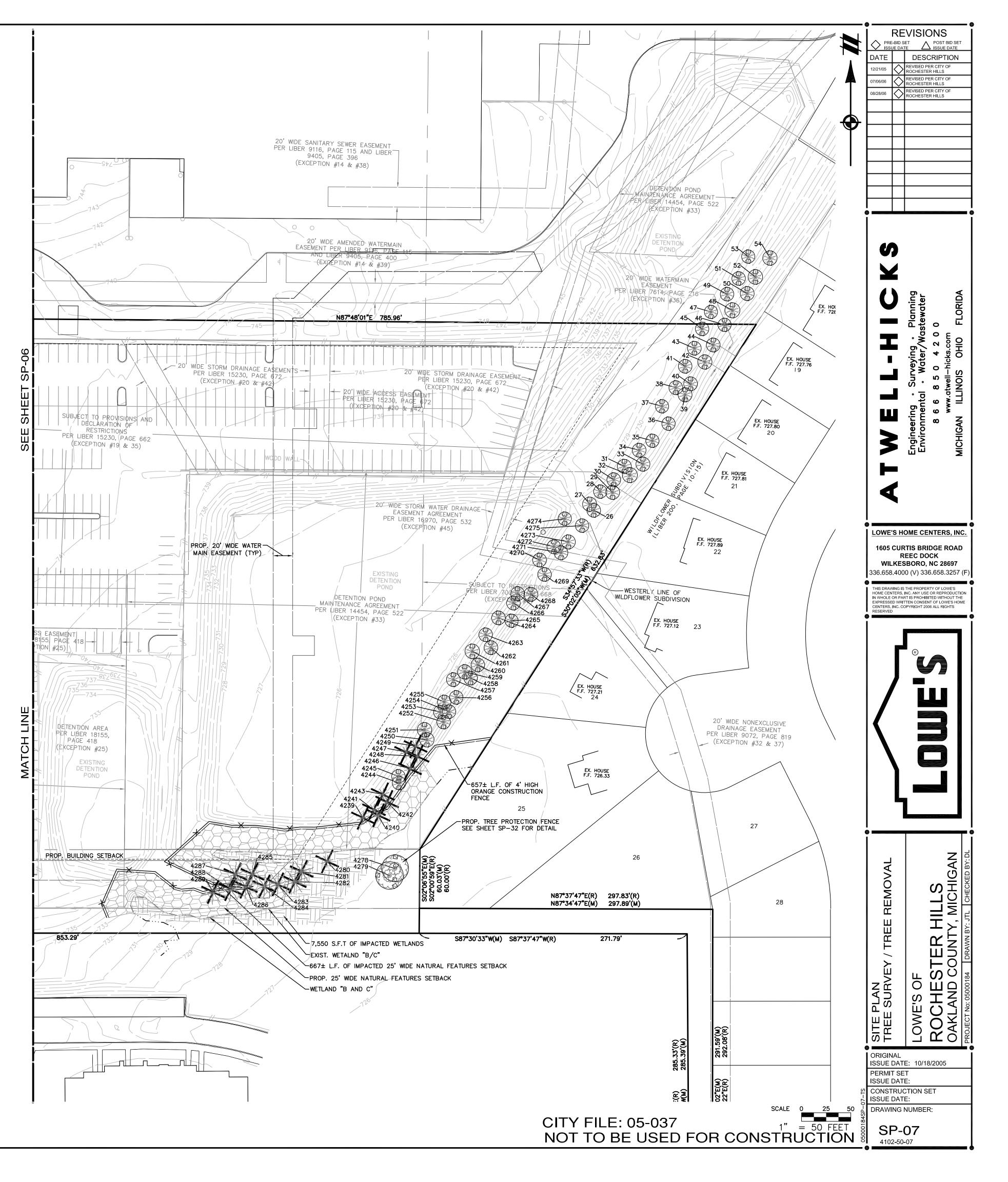


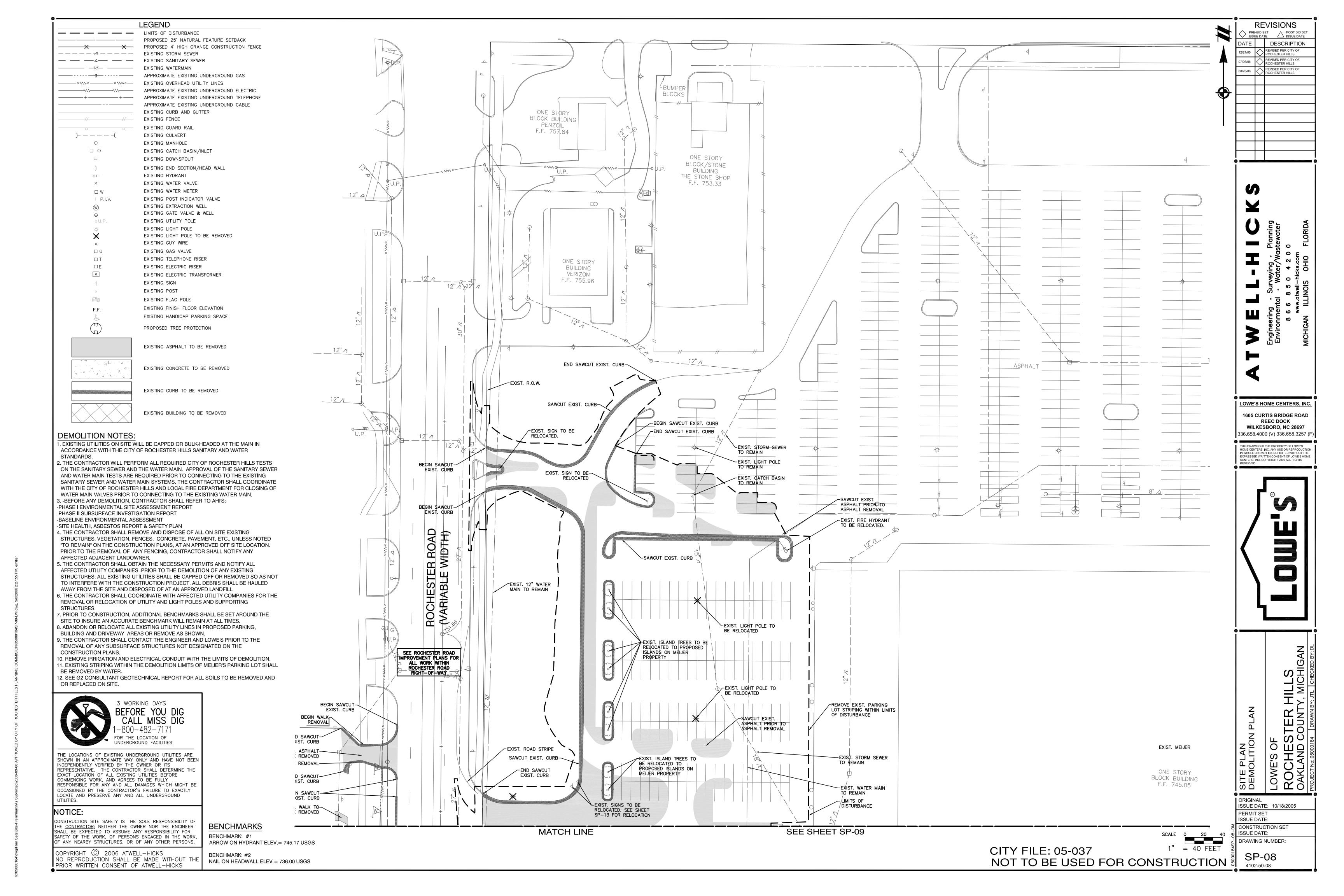
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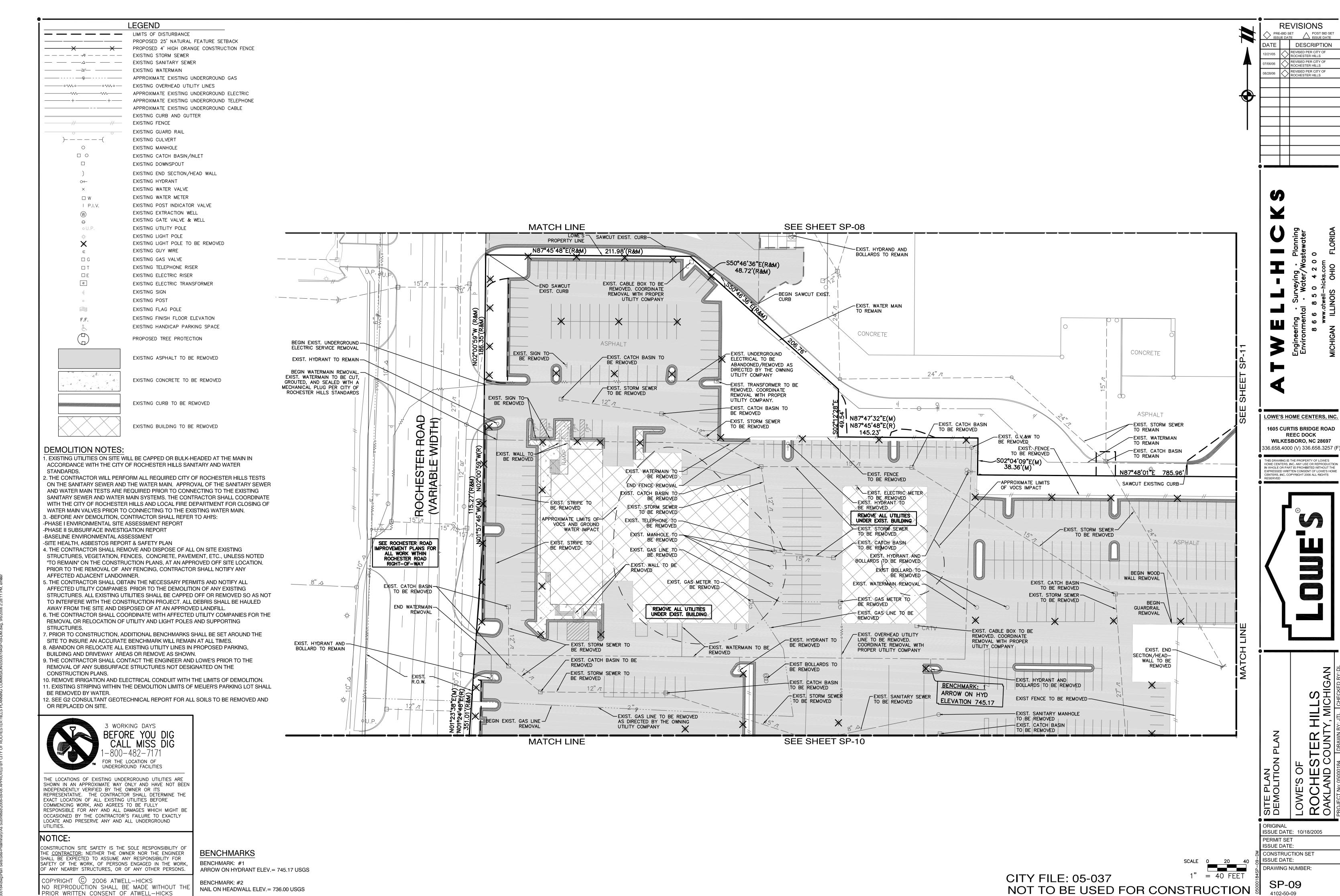
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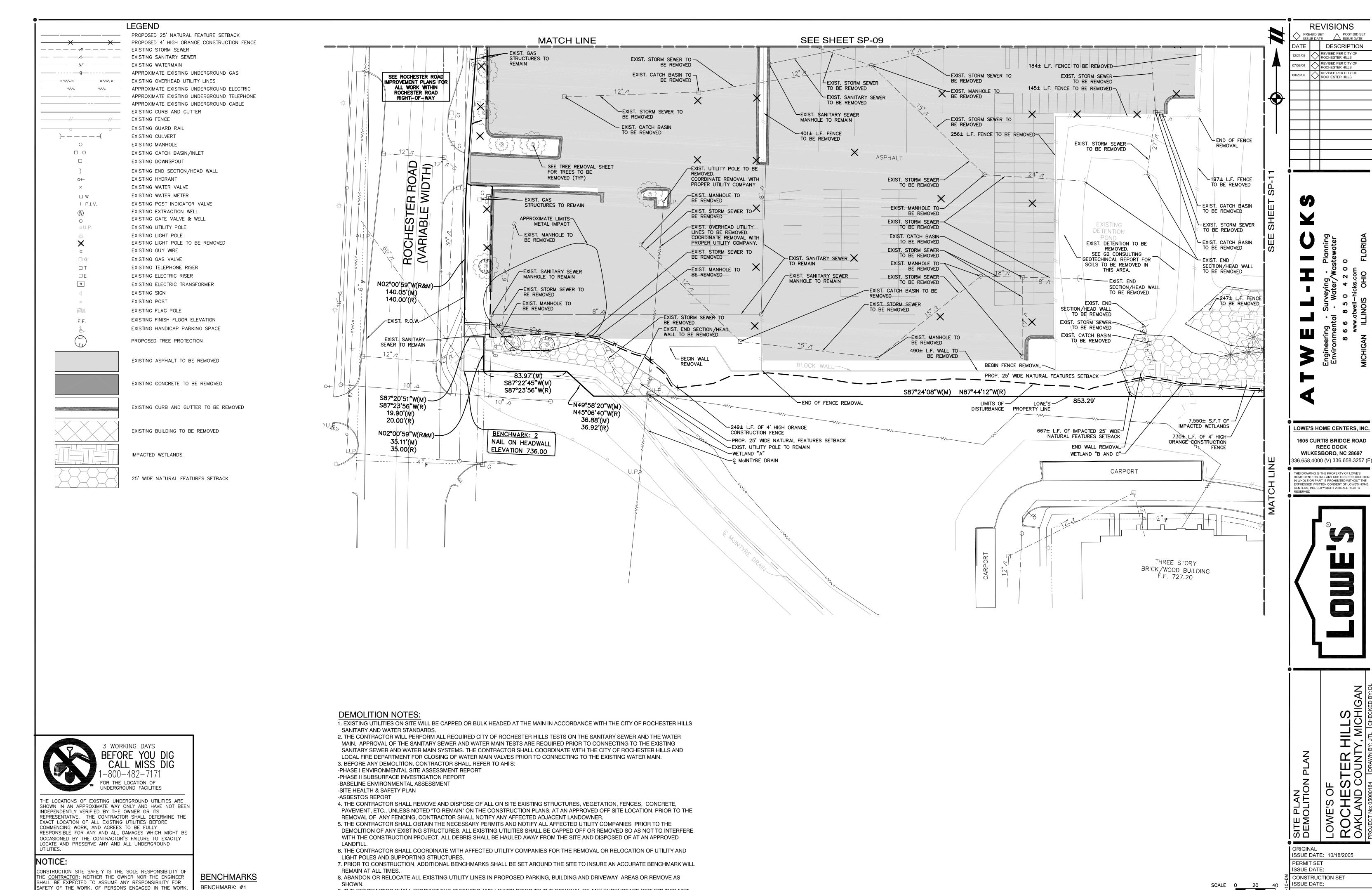
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE <u>CONTRACTOR</u>; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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DRAWING NUMBER:

4102-50-10

1" = 40 FEET

CITY FILE: 05-037

NOT TO BE USED FOR CONSTRUCTION

9. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND LOWE'S PRIOR TO THE REMOVAL OF ANY SUBSURFACE STRUCTURES NOT

11. EXISTING STRIPING WITHIN THE DEMOLITION LIMITS OF MEIJER'S PARKING LOT SHALL BE REMOVED BY WATER.

12. SEE G2 CONSULTANT GEOTECHNICAL REPORT FOR ALL SOILS TO BE REMOVED AND OR REPLACED ON-SITE.

DESIGNATED ON THE CONSTRUCTION PLANS.

10. REMOVE IRRIGATION AND ELECTRICAL CONDUIT WITH THE LIMITS OF DEMOLITION.

SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK,

OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NO REPRODUCTION SHALL BE MADE WITHOUT THE

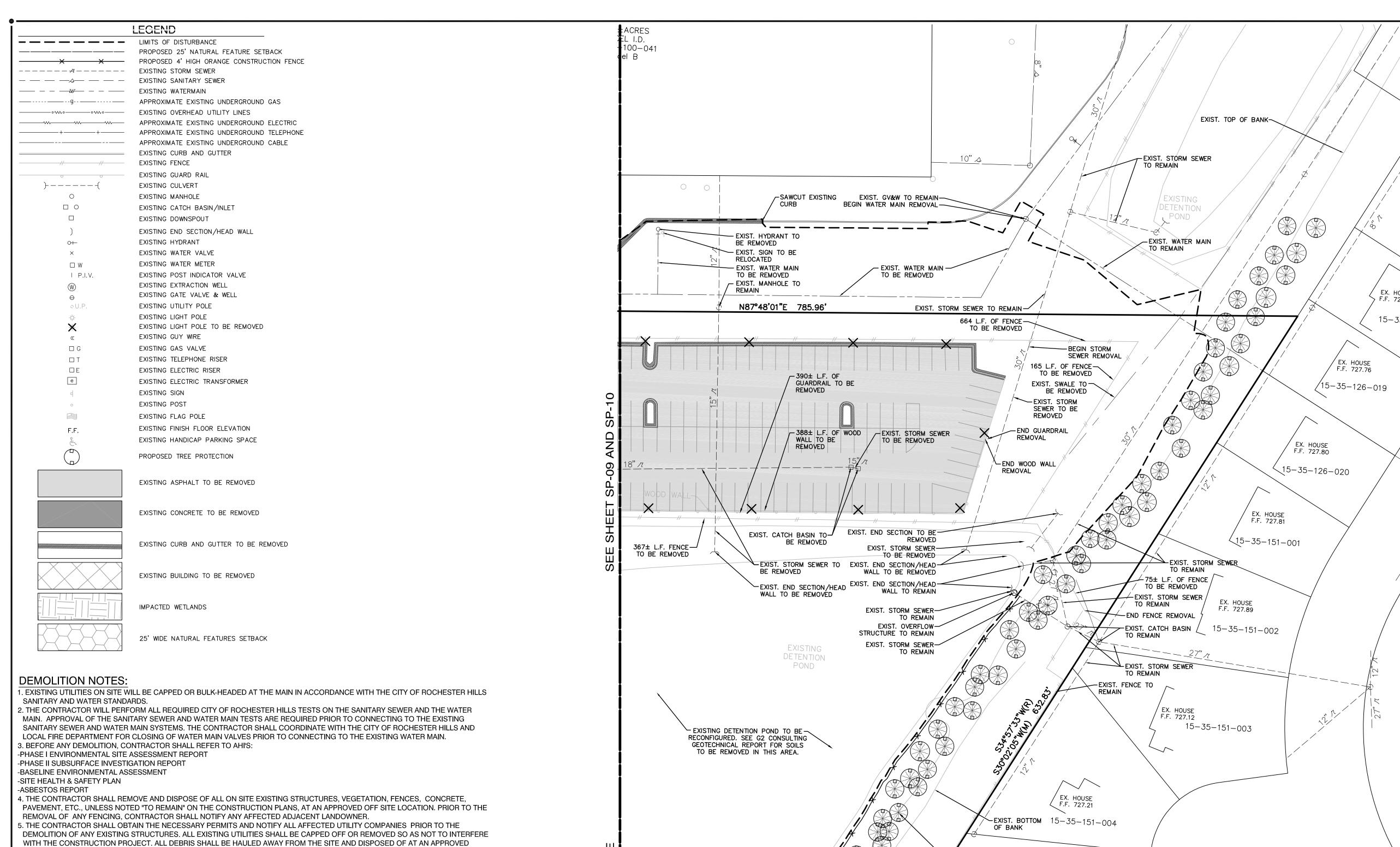
PRIOR WRITTEN CONSENT OF ATWELL-HICKS

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ARROW ON HYDRANT ELEV.= 745.17 USGS

NAIL ON HEADWALL ELEV. = 736.00 USGS

BENCHMARK: #2



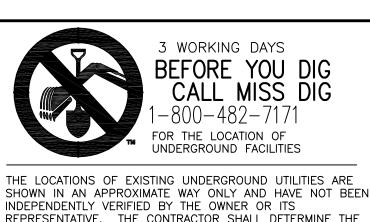
6. THE CONTRACTOR SHALL COORDINATE WITH AFFECTED UTILITY COMPANIES FOR THE REMOVAL OR RELOCATION OF UTILITY AND LIGHT POLES AND SUPPORTING STRUCTURES.

7. PRIOR TO CONSTRUCTION, ADDITIONAL BENCHMARKS SHALL BE SET AROUND THE SITE TO INSURE AN ACCURATE BENCHMARK WILL REMAIN AT ALL TIMES. 8. ABANDON OR RELOCATE ALL EXISTING UTILITY LINES IN PROPOSED PARKING, BUILDING AND DRIVEWAY AREAS OR REMOVE AS

9. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND LOWE'S PRIOR TO THE REMOVAL OF ANY SUBSURFACE STRUCTURES NOT DESIGNATED ON THE CONSTRUCTION PLANS.

10. REMOVE IRRIGATION AND ELECTRICAL CONDUIT WITH THE LIMITS OF DEMOLITION.

11. EXISTING STRIPING WITHIN THE DEMOLITION LIMITS OF MEIJER'S PARKING LOT SHALL BE REMOVED BY WATER. 12. SEE G2 CONSULTANT GEOTECHNICAL REPORT FOR ALL SOILS TO BE REMOVED AND OR REPLACED ON-SITE.



REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

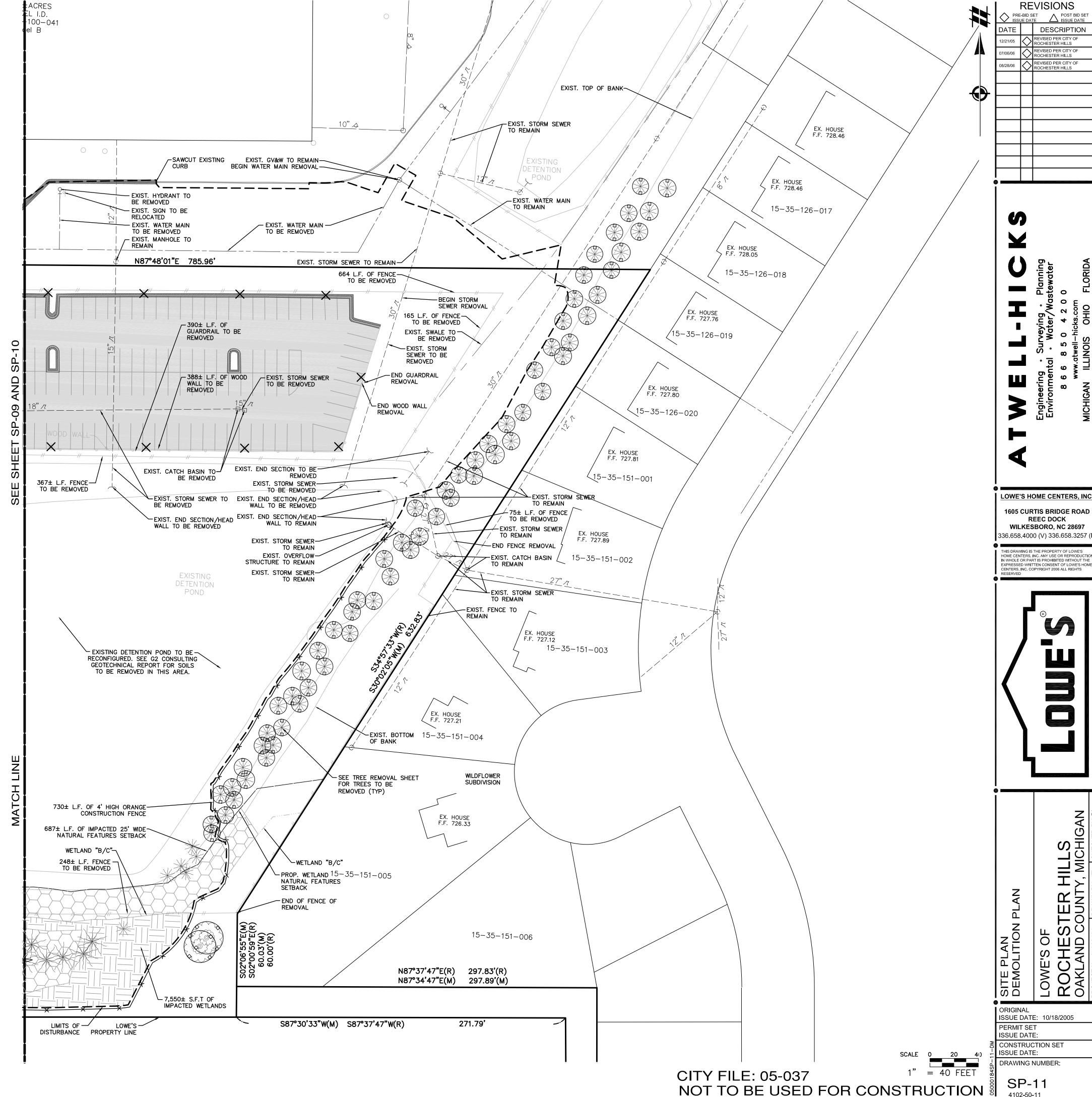
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BENCHMARKS BENCHMARK: #1 ARROW ON HYDRANT ELEV.= 745.17 USGS

NAIL ON HEADWALL ELEV.= 736.00 USGS

BENCHMARK: #2



REVISED PER CITY OF ROCHESTER HILLS

REVISED PER CITY OF ROCHESTER HILLS

REEC DOCK