City of Birmingham
A Walkable Community

MEMORANDUM

Engineering Dept.

DATE: **November 26, 2014**

TO: **Joseph A. Valentine, City Manager**

FROM: **Paul T. O'Meara, City Engineer**

SUBJECT: **Putney Dr. Sewer Improvement Project**
Putney Dr. – Henley Dr. to N. Adams Rd.
Henley Dr. – Abbey Rd. to Putney Dr.

At the meeting of July 14, 2014, the City Commission held a public hearing to consider several streets to be cape sealed under a special assessment district. At the hearing, some residents of Putney Dr. appeared, expressing concern that the sewer system on their street was causing problems, and that it should be addressed prior to being cape sealed. The minutes of this meeting are attached for reference.

After further discussion, Putney Dr. was taken off the special assessment district. The Engineering Dept. was asked to meet with the residents of this street to obtain more information, and report back to the Commission later with a proposed solution.

I personally met with several residents on Putney Dr. later that week, on July 18. A majority of the homeowners were present, confirming that they were not interested in petitioning to have the street permanently paved, they just wanted their sewers fixed. I agreed to conduct a sewer study and get back with them at a later date, in time to schedule work in 2015 if work was indeed determined to be advisable.

The attached sewer study was conducted by our consultant, Hubbell, Roth, & Clark (HRC). I asked HRC to do the following:

1. Verify if the existing combined sewer system was indeed lacking capacity for the size of the drainage area.
2. Estimate the extent and cost of work needed to simply upgrade the existing combined sewer system to a logical ending point.
3. Estimate the extent and cost of the work needed to supplement the existing sewer system by taking storm water off the upstream end of the pipe and redirecting it to Adams Rd. (where a storm sewer system already exists).

The attached study results have since been prepared by HRC, and further studied for feasibility by our office. The combined sewer replacement option has been estimated to cost $133,000 (denoted by the bold red line on the attached map), while the storm sewer relief option (denoted by the bold green line on the attached map) has been estimated at $92,000. We have determined that replacement of the combined sewer system is the best option for the City, for the following reasons:

1. While installing a storm sewer would be less expensive at the present time, it would add new pipe to the system, and not address the issues in the old pipe, which would remain in service. The old 85 year old combined sewer system is in marginal condition, and should be replaced soon. Replacing the combined sewer system will address both the capacity problem and the poor condition sewers at the same time for just an additional $40,000. The cost to keep the old system operational in the long term would be much greater.
2. The residents have indicated that they have no interest in seeing the road reconstructed to a permanent pavement. That said, it is important that any work that is done avoid damaging the existing pavement as much as possible, for the following reasons:
   a) Removing and replacing unimproved roads should be avoided whenever possible. Doing so runs the risk that putting the street back without a proper drainage system will cause new drainage problems that did not exist before, which can upset the adjacent owners.
   b) No cape seal program is planned for 2015. Attempting to cape seal a small section of street is not cost effective, due to the mobilization costs involved.

   Due to the wide parkways both on Putney Dr. and the downstream section of Henley Dr., new larger and deeper combined sewers can be installed in the east parkway of Henley Dr. and the north parkway of Puntey Dr. in such a way that no more than five feet (perhaps less) of the adjacent cape sealed surface would have to be damaged and replaced (with an asphalt patch). Damaging the edge of the road would actually improve the street as well, since there is significant damage to Putney Dr. (in particular) along the north edge of the street.
3. The selected paths of the new sewers are relatively clear of City trees or driveways. There are two trees on the north side of Putney Dr. that would have to be removed. The trees are approximately 30 years old, and neither is considered of high quality after being reviewed by the City's forestry contractor. They can be replaced with a more desirable species after construction.

With the help of a resident, I was able to call a meeting with the majority of the Putney Dr. homeowners, as well as some on adjacent Henley Dr. today (November 26). In total, ten homeowners were present, most from different homes. After explaining the options and the thought process, all present appeared to be supportive of the planned improvements. There was some angst expressed about the loss of the trees, and a large area of brick paver drive approach that would have to be partially reconstructed at homeowner expense. Overall, though, the residents appear happy with this proposal. Two residents, in fact, have already written emails to support the concept, and those are attached.

Similar to the Catalpa Dr. Sewer project covered on this same City Commission agenda under separate cover, this project would lend itself to being added to the 2015 Local Street Paving Program (Contract #2-15(P)). It is our expectation that upon completion, the residents would have a greatly reduced chance of sewer backup during extreme rain events.

Due to the overall goal of saving the existing pavement, a modified approach is suggested with respect to replacing sewer laterals. Since the sewer would be replaced near a right-of-way line, houses on the "short" side would be able to have their sewer laterals replaced (if needed) at minimal cost (the main sewer trench would be excavated up to the City sidewalk already). For those on the "short" side of the sewer, it is recommended that they be included in a sewer

lateral special assessment district. The cost for these homeowners would be approximately $1,000. For those that are on the "long" side, a lot more work would be involved, plus the street pavement would have to be removed and replaced (asphalt patched). The cost for the "long" side residents would be more in the range of $2,500. Knowing that some of these residents may still want to have their sewer lateral replaced, we would suggest that they be offered the opportunity to voluntarily join the assessment district after the actual cost is determined. Unless there is direction to the contrary, we will proceed on this basis, and report back to the Commission at a later date once we are prepared to create a special assessment district for sewer laterals.

At this time, the Engineering Dept. recommends that the 2014/15 budget be amended to include the replacement of the combined sewer on all of Putney Dr., as well as Henley Dr. from Abbey Rd. to Putney Dr., to address sewer capacity issues on this street, at an estimated cost of $133,000.

SUGGESTED RESOLUTION:

To direct the Engineering Dept. to proceed with the construction of new combined sewers on all of Putney Dr. and Henley Dr. from Abbey Rd. to Putney Dr. at an estimated cost of $133,000, to be included in the 2015 Local Street Paving Program, Contract #2-15(P). Further, approving the appropriation and budget amendments to the fiscal year 2014-2015 budget as follows:

Sewer Fund	
Revenues:	
Draw from Net Assets 590-000.000-400.0000	$133,000
Total Revenue Adjustments	$133,000
Expenses:	
Public Improvements - Acacia Drain 590-536.001-981.0100	$133,000
Total Expense Adjustments	$133,000

HRC 100 YEARS
CONSULTING ENGINEERS SINCE 1915

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October 23, 2014

City of Birmingham
151 Martin Street, P.O. Box 3001
Birmingham, Michigan 48012

Attention: Mr. Paul T. O'Meara, Director of Engineering

Re: Putney Street Sewer Study HRC Job No. 20140461.27
Recommendations for Sewer Improvements

Dear Mr. O'Meara:

As requested, we have completed an analysis of the condition and capacity needs for the existing sewers within the above-mentioned limits, on and tributary to Putney Street, in the northeast quarter of Section 25, and have written this letter to present our findings and recommendations.

Sewer Condition

The study area includes the existing sewers on Putney, between Henley and Adams, and on Henley, between Putney and Abbey. The sewers in the study area are combined sewers generally aligned at the edge of the roads, on the north side of Putney, and east side of Henley. Mature trees are present in parts of the greenbelt area near the sewer. The sewers were constructed in the late 1920's using clay pipe, and are 8" to 12" in diameter. The existing depth of the sewer ranges from 5.9 ft. (MH28) to 7.2 ft., and does not meet current standards for sewer depth.

Based on the results of the 1993 Sewer System Study, the sewers on Putney and Henley are generally in fair to poor condition, with radial cracking, linear cracking, and mineral deposits present in many of the segments, and root intrusions noted on Putney. A sunken section of pipe is present in the Putney sewer, between MH28A and MH28, which was traversed by the camera in 1993, and we would recommend this line be televised again to determine if the offset amount has increased since then. Structural rehabilitation of the sewer segments would require completing a point repair for the sunken segment of pipe and then relining with a cured-in-place liner system.

Sewer Capacity

Considering the modifications made to the sewer system as part of the 1995 Birmingham CSO Drain project, rational method calculations were completed for the existing sewers on Putney and Henley. Drainage areas were established from two (2) foot contour maps (Abrams Aerial Survey Corp., 1962). Based on these drainage calculations it was determined that the existing combined sewer in the study area does not have the capacity for design flows resulting from a 10-year storm.

Construction of the Birmingham CSO Drain eliminated combined sewer overflows to the Rouge River, but did not directly address capacity issues in the local sewers. In some cases, existing sewers were intercepted by the Drain, thereby providing an outlet with sufficient capacity and reducing the hydraulic grade line (HGL) in the local

system for design conditions, which include the sewer on Abbey that is the outlet for the Putney/Henley sewers. However, under existing design conditions, the flow in the Abbey sewer at Henley will be surcharged by 0.5 feet, with the resulting HGL being 3.4 feet below grade. The flow in the Putney sewer at Henley will be surcharged by 1.2 feet, with the resulting HGL being 4.8 feet below grade.

Recommended Sewer Improvements

Due to the age, deteriorated condition, and relatively shallow depth of the existing sewer, we would recommend that some improvements be made to the sewer system in the study area. Two alternatives were considered in this study; the first being removal and replacement of the existing combined sewers, and the other involving construction of a new storm sewer to divert the excess flow to the combined system and rehabilitation of the existing combined sewers to address structural and maintenance concerns. Any new sewers that are installed would be constructed of reinforced concrete pipe or PVC pipe, both with water-tight joints, and would have an expected service life exceeding 50 years.

For the combined sewer alternative, we would recommend that the new sewers be installed close to the alignment of the existing sewers. Some realignment is recommended to reduce potential impact to the water main system and trees. New sewers could be installed at slightly flatter slopes so that the depth of the sewer can be increased to better serve adjoining homes. With the proposed sewer slopes shown, the sewers could be installed at depths of 7.9 to 10.6 feet (2 to 3 feet deeper than existing). Please note that even with the new sewers, there will be some surcharging under design conditions due to downstream capacity limitations. However, because the sewers are deeper, the depth of the resulting HGL in the Putney sewer at Henley will be 7.4 feet below grade. The approximate construction cost for constructing the new combined sewers on Henley and Putney, which includes restoration and 10% for contingencies, would be on the order of $133,000.

For the storm sewer and rehabilitation alternative, we would recommend that a new storm sewer be installed to collect the drainage to the catch basins on Putney, at MH's 28A and 28. The new storm sewer would be connected to an existing storm sewer along the Adams Road "service" drive. The Adams Road storm sewer flows north, connecting to the 36" storm sewer at Manor Park, that outlets to the Rouge River. The Adams Road storm sewer collects flow from the private sewer system at the apartment complex on the east side of Adams, across from Abbey. There is also one catch basin on that sewer just north of Putney. With the additional flow, the existing Adams Road storm sewer will be surcharged under design conditions, but the resulting HGL will still remain below grade. With the removal of this storm flow from the combined sewers on Putney and Henley, they will have capacity for the 10-year storm.

We would recommend that with the storm sewer alternative, the existing 8" sewers on Putney should be rehabilitated at some time in the future to address concerns with the condition of the pipe and the future operation and maintenance. Rehabilitation would

include completing a point repair and relining using a cured-in-place resin lining system. The point repair work could be completed as part of the storm sewer work, while the sewer lining could be included in a future sewer rehabilitation program. The approximate construction cost for constructing the new storm sewer and completing the rehabilitation of the Putney sewers, which includes restoration and 10% for contingencies, would be on the order of $92,000

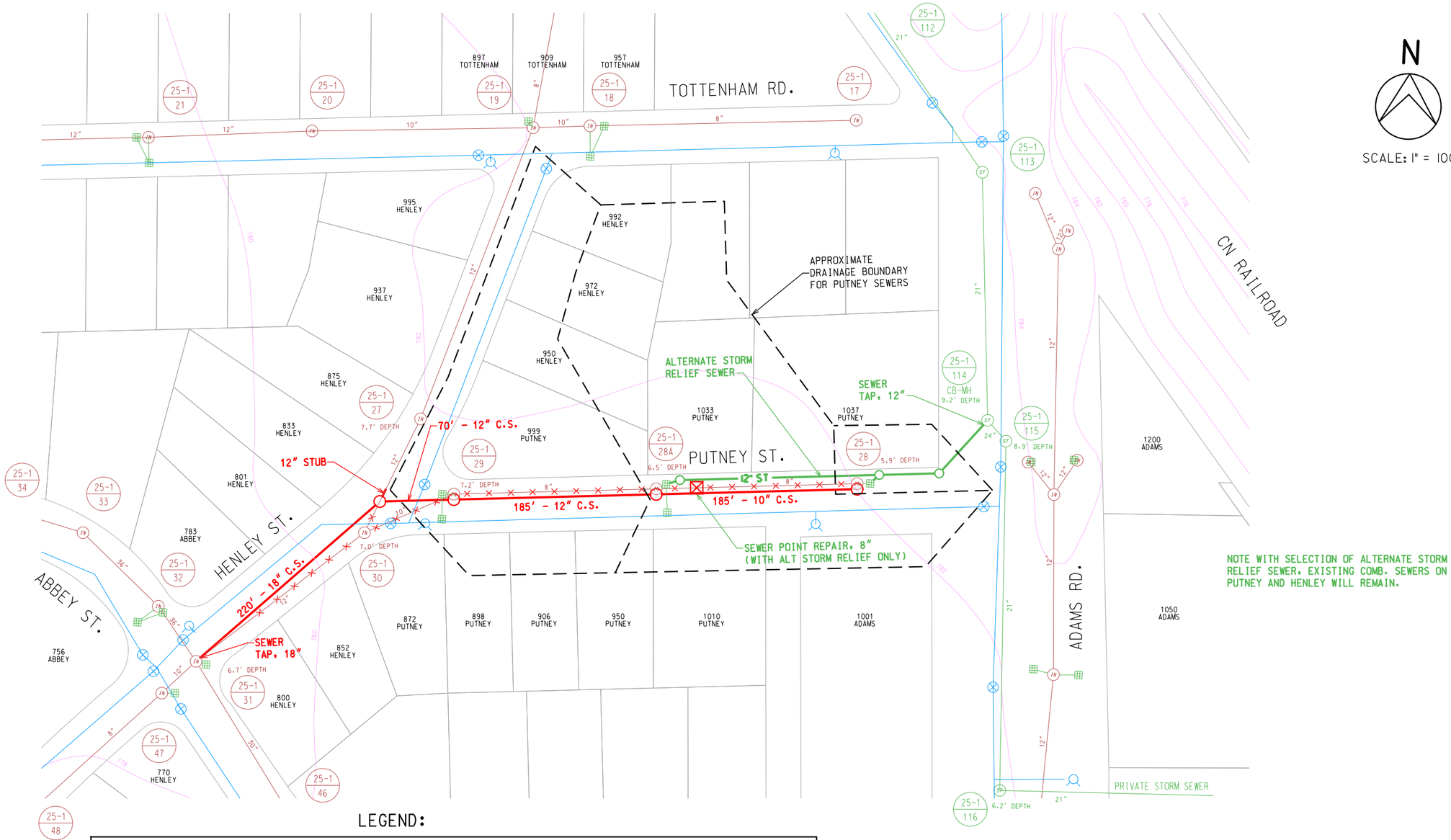
Attached, please find Figure No. 1, Existing Sewer Condition table, sewer design calculations, and the Preliminary Construction Cost Estimates for the recommended sewer improvements. If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.

James J. Surhigh, P.E.
Senior Project Engineer

pc: HRC – W. Alix, File



LEGEND:

EX. SANITARY	PROP. COMBINED
EX. COMBINED	SEWER POINT REPAIR
EX. STORM	PROP. STORM
EX. WATER	REMOVE/ABANDON SEWER
"HIGH-PRIORITY" REHABILITATION SEWER SEGMENT	

CITY OF BIRMINGHAM

PUTNEY ST. SEWER STUDY

JOB NO. 20140461

DATE OCT 2014

HRC 100 YEARS CONSULTING ENGINEERS SINCE 1915
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FIGURE 1

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CITY OF BIRMINGHAM
SEWER SYSTEM IMPROVEMENT PROGRAM

EXISTING SEWER CONDITION

STREET	DRAIN. DISTR.	QTR. SEC.	MANHOLE From:	MANHOLE To:	TAPE NO.	SIZE (Inches)	LENGTH (Feet)	DEFECTS						PIPE MAT'L	STRUCT REHABILITATION METHOD	STRUCT REHABILITATION PRIOR	CITY CONDITION RATING SCORE STRUCT	MAINT	SUM	RATING
HENLEY	1	25-1	27	30	93-10	12	113	OK						CLAY	**OK**	5	-	-	-	-
HENLEY	1	25-1	30	31	93-10	12	196	CPL(45)	BP	OJ				CLAY	RELINE	2	79	5	84	52
PUTNEY	1	25-1	28	28A	93-9	8	187	RI	BP(25)	CPR(3)	MD	WJ	SW	CLAY	PT RPR RELINE	3	56	19	75	27
PUTNEY	1	25-1	28A	29	93-9/10	8	185	CPR(11)	BP(3)	RI	MD			CLAY	RELINE	2	63	30	93	73
PUTNEY	1	25-1	29	30	93-10	10	88	OJ	BP					CLAY	PT RPR	4	2	0	2	5

Note: Rehabilitation Priority - 1 (highest) to 5 (lowest)

COMBINED SEWER DESIGN CALCULATIONS FOR PROPOSED CONDITIONS

	SEWER SEGMENT					TRIBUTARY AREA								RUNOFF			ELEVATIONS				DRAIN						
STREET	DRAIN. DISTR.	QTR. SECT.	FROM MH	TO MH	TYPE	A (acres)	SUM A (acres)	% IMPERV	C	AC (acres)	SUM AC	# HOMES	SUM # HOMES	T_{conc} (min.)	I (in./hr.)	Q (cfs)	H.G.L.	U/S INV.	D/S INV.	U/S RIM	L (feet)	v (fps)	t_{trav} (min.)	S_f (%)	SIZE (in.)	S_o (%)	Q_{cap} (cfs)
Abbey Rd	1	25-1	46	31	CS	0.00	23.00	42%	0.35	8.10	8.10	0	47	30.8	3.14	25.4	770.78	767.53	766.87	775.41	159	5.2	0.51	0.38%	30	0.415%	26.4
														31.3			770.17										
Henley Dr	1	25-1	47	31	CS	1.60	1.60	40%	0.34	0.54	0.54	0	6	20.0	3.89	2.1	770.55	768.70	768.22	773.95	41	3.9	0.18	0.93%	10	1.171%	2.4
														20.2			770.17										
Tottneham Rd	1	25-1	18	19	CS	0.91	0.91	50%	0.40	0.36	0.36	1	8	20.0	3.89	1.4	776.21	775.54	774.70	783.04	52	2.6	0.33	0.42%	10	1.615%	2.8
														20.3			775.24										
Easement (N of Tottenham)	1	25-1	16	19	ST	0.74	0.74	30%	0.28	0.21	0.21			20.0	3.89	0.8	777.80	777.0	774.64	782.0	180	2.0	1.50	0.05%	12	1.311%	4.1
														21.5			775.24										
Tottenham Rd (Flow Split) 56%	1	25-1	19	20	CS	0.28	1.08	50%	0.40	0.11	0.38	4	8	20.3	3.86	1.5	775.11	774.44	771.85	782.67	203	2.7	1.25	0.45%	10	1.276%	2.5
(ultim. outlet to Birmingham CSO Drain at BMCSO23)														21.6			772.63										
Henley Dr (Flow Split, overflow 0.48') 44%	1	25-1	19	27	CS	0.28	0.85	50%	0.40	0.11	0.30	3	7	20.3	3.86	1.2	775.24	774.44	773.52	782.67	286	2.0	2.38	0.11%	12	0.322%	2.0
Henley Dr	1	25-1	27	30	CS	0.39	1.24	50%	0.40	0.16	0.46	2	9	22.7	3.67	1.7	774.44	773.64	771.37	781.34	113	2.1	0.88	0.22%	12	2.009%	5.0
														23.6			770.75										
Putney Dr [R&R]	1	25-1	**28**	**28A**	**CS**	0.20	0.20	70%	0.52	0.10	0.10	11	11	20.0	3.89	0.4	774.14	**773.47**	**771.60**	781.36	**187**	2.0	1.56	0.03%	**10**	**1.00%**	2.2
Putney Dr [R&R]	1	25-1	**28A**	**29**	**CS**	1.49	1.69	40%	0.34	0.51	0.61	4	15	21.6	3.76	2.3	772.32	**771.45**	**770.34**	781.08	**185**	2.9	1.06	0.41%	**12**	**0.60%**	2.8
Putney Dr [R&R]	1	25-1	**29**	**30**	**CS**	1.16	2.85	45%	0.37	0.43	1.04	1	16	22.6	3.68	3.8	771.56	**770.24**	**769.26**	780.83	**70**	4.9	0.24	1.15%	**12**	**1.40%**	4.2
														22.9			770.75										
Henley Dr [R&R]	1	25-1	**30**	**31**	**CS**	0.00	4.09	50%	0.40	0.00	1.50	4	29	23.6	3.60	5.4	770.75	**768.86**	**768.20**	778.18	**220**	3.0	1.20	0.26%	**18**	**0.30%**	5.8
														24.8			770.17										
Abbey Rd	1	25-1	31	32	CS	2.60	31.29	40%	0.34	0.88	11.02	2	84	31.3	3.11	34.2	770.17	766.69	766.60	773.53	61	3.6	0.28	0.26%	36	0.148%	25.6
(ultim. outlet to Birmingham CSO Drain at BMCSO22)														31.6			770.01										
			Apt Complex East of Adams				*6.81*	*60%*	*0.46*		*3.13*																
Adams Road Storm Sewer	1	25-1	116	115	ST		6.81	70%	0.52	0.00	3.13			30.0	3.18	10.0	777.78	773.32	773.01	779.37	320	2.1	2.60	0.40%	21	0.097%	4.9
Adams Road Storm Sewer	1	25-1	115	114	ST		6.81	70%	0.52	0.00	3.13			32.6	3.04	9.5	776.51	772.97	772.93	781.88	26	2.8	0.15	0.18%	24	0.154%	8.9
Adams Road Storm Sewer	1	25-1	114	113	ST	0.93	7.74	50%	0.40	0.37	3.50			32.8	3.03	10.6	776.47	772.89	772.32	782.08	230	3.3	1.17	0.45%	21	0.248%	7.9
Easement (W of GTWRR)	1	25-1	113	112	ST		7.74	50%	0.40	0.00	3.50			33.9	2.97	10.4	775.44	772.28	771.72	784.71	278	3.0	1.57	0.43%	21	0.201%	7.1
Easement (W of GTWRR)	1	25-1	112	111	ST		7.74	70%	0.52	0.00	3.50			35.5	2.89	10.1	774.24	771.62	771.06	783.37	268	3.0	1.48	0.41%	21	0.209%	7.2
Easement (W of GTWRR)	1	25-1	111	110	ST		7.74	50%	0.40	0.00	3.50			37.0	2.82	9.9	773.14	771.02	770.69	783.47	270	2.3	1.95	0.39%	21	0.122%	5.5
Easement (W of GTWRR)	1	25-1	110	109	ST		7.74	70%	0.52	0.00	3.50			38.9	2.74	9.6	771.95	770.55	764.21	783.71	251	4.0	1.05	0.37%	21	2.526%	25.2
Easement (E of Manor Park)	1	25-1	109	108	ST		7.74	50%	0.40	0.00	3.50			40.0	2.69	9.4	765.66	764.26	758.78	771.93	211	3.9	0.90	0.35%	21	2.597%	25.5
Manor Park	1	25-1	108	1	ST		7.74	50%	0.40	0.00	3.50			40.9	2.66	9.3	760.18	758.78	757.51	763.93	39	3.9	0.17	0.34%	21	3.256%	28.6
														41.0			758.51										

Prepared by
Hubbell, Roth & Clark, Inc.
10/22/2014
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CITY OF BIRMINGHAM
PUTNEY STREET SEWER STUDY
HRC JOB NO. 20140461.27

COMBINED SEWER DESIGN CALCULATIONS FOR PROPOSED CONDITIONS - STORM RELIEF SEWER ALTERNATIVE

	SEWER SEGMENT					TRIBUTARY AREA								RUNOFF			ELEVATIONS				DRAIN						
STREET	DRAIN. DISTR.	QTR. SECT.	FROM MH	TO MH	TYPE	A (acres)	SUM A (acres)	% IMPERV	C	AC (acres)	SUM AC	# HOMES	SUM # HOMES	T_{conc} (min.)	I (in./hr.)	Q (cfs)	H.G.L.	U/S INV.	D/S INV.	U/S RIM	L (feet)	v (fps)	t_{trav} (min.)	S_f (%)	SIZE (in.)	S_o (%)	Q_{cap} (cfs)
Abbey Rd	1	25-1	46	31	CS	0.00	23.00	42%	0.35	8.10	8.10	0	47	30.8	3.14	25.4	770.50	767.53	766.87	775.41	159	5.2	0.51	0.38%	30	0.415%	26.4
														31.3			769.89										
Henley Dr	1	25-1	47	31	CS	1.60	1.60	40%	0.34	0.54	0.54	0	6	20.0	3.89	2.1	770.28	768.70	768.22	773.95	41	3.9	0.18	0.93%	10	1.171%	2.4
														20.2			769.89										
Tottneham Rd	1	25-1	18	19	CS	0.91	0.91	50%	0.40	0.36	0.36	1	8	20.0	3.89	1.4	776.21	775.54	774.70	783.04	52	2.6	0.33	0.42%	10	1.615%	2.8
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														21.5			775.24										
Tottenham Rd (Flow Split) 56%	1	25-1	19	20	CS	0.28	1.08	50%	0.40	0.11	0.38	4	8	20.3	3.86	1.5	775.11	774.44	771.85	782.67	203	2.7	1.25	0.45%	10	1.276%	2.5
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Henley Dr	1	25-1	27	30	CS	0.39	1.24	50%	0.40	0.16	0.46	2	9	22.7	3.67	1.7	774.44	773.64	771.37	781.34	113	2.1	0.88	0.22%	12	2.009%	5.0
														23.6			771.98										
Putney Dr **[REMOVE CB'S]**	1	25-1	**28**	28A	CS	0.00	0.00	70%	0.52	0.00	0.00	11	11	20.0	3.89	0.2	776.00	775.47	774.54	781.36	187	2.0	1.56	0.03%	8	0.50%	0.9
Putney Dr **[REMOVE CB'S]**	1	25-1	**28A**	29	CS	0.00	0.00	40%	0.34	0.00	0.00	4	15	20.0	3.89	0.3	775.07	774.54	773.80	781.08	185	2.0	1.54	0.06%	8	0.40%	0.8
Putney Dr	1	25-1	29	30	CS	1.16	1.16	45%	0.37	0.43	0.43	1	16	20.0	3.89	1.7	774.35	773.68	771.37	780.83	88	3.1	0.48	0.58%	10	2.62%	3.5
														20.5			771.98										
Henley Dr	1	25-1	30	31	CS	0.00	2.40	50%	0.40	0.00	0.89	4	29	23.6	3.60	3.2	771.98	771.18	768.20	778.18	196	4.1	0.80	0.80%	12	1.52%	4.4
														24.4			769.89										
Abbey Rd	1	25-1	31	32	CS	2.60	29.60	40%	0.34	0.88	10.41	2	84	31.3	3.11	32.4	769.89	766.69	766.60	773.53	61	3.6	0.28	0.24%	36	0.148%	25.6
(ultim. outlet to Birmingham CSO Drain at BMCSO22)														31.6			769.75										
PUTNEY STORM SEWER	1	25-1	**28A**	**28**	**ST**	1.49	1.49	35%	0.31	0.46	0.46			20.0	3.89	1.8	778.91	**777.10**	**776.40**	781.08	**185**	2.3	1.35	0.25%	**12**	**0.38%**	2.2
PUTNEY STORM SEWER	1	25-1	**28**	**114**	**ST**	0.20	1.69	60%	0.46	0.09	0.55			21.3	3.78	2.1	778.44	**776.40**	**774.54**	781.36	**187**	2.7	1.17	0.34%	**12**	**0.99%**	3.6
														22.5			777.80										
			Apt Complex East of Adams				*6.81*	*60%*	*0.46*		*3.13*																
Adams Road Storm Sewer	1	25-1	116	115	ST		6.81	60%	0.46	0.00	3.13			30.0	3.18	10.0	779.11	773.32	773.01	779.37	320	2.1	2.60	0.40%	21	0.097%	4.9
Adams Road Storm Sewer	1	25-1	115	114	ST		6.81	60%	0.46	0.00	3.13			32.6	3.04	9.5	777.85	772.97	772.93	781.88	26	2.8	0.15	0.18%	24	0.154%	8.9
Adams Road Storm Sewer **[CONN STORM RELIEF]**	1	25-1	**114**	113	ST	0.93	9.43	40%	0.34	0.32	4.00			32.8	3.03	12.1	777.80	772.89	772.32	782.08	230	3.3	1.17	0.59%	21	0.248%	7.9
Easement (W of GTWRR)	1	25-1	113	112	ST		9.43	50%	0.40	0.00	4.00			33.9	2.97	11.9	776.45	772.28	771.72	784.71	278	3.0	1.57	0.56%	21	0.201%	7.1
Easement (W of GTWRR)	1	25-1	112	111	ST		9.43	60%	0.46	0.00	4.00			35.5	2.89	11.6	774.89	771.62	771.06	783.37	268	3.0	1.48	0.53%	21	0.209%	7.2
Easement (W of GTWRR)	1	25-1	111	110	ST		9.43	50%	0.40	0.00	4.00			37.0	2.82	11.3	773.46	771.02	770.69	783.47	270	2.3	1.95	0.51%	21	0.122%	5.5
Easement (W of GTWRR)	1	25-1	110	109	ST		9.43	60%	0.46	0.00	4.00			38.9	2.74	11.0	771.95	770.55	764.21	783.71	251	4.6	0.92	0.48%	21	2.526%	25.2
Easement (E of Manor Park)	1	25-1	109	108	ST		9.43	50%	0.40	0.00	4.00			39.8	2.70	10.8	765.66	764.26	758.78	771.93	211	4.5	0.78	0.46%	21	2.597%	25.5
Manor Park	1	25-1	108	1	ST		9.43	50%	0.40	0.00	4.00			40.6	2.67	10.7	760.18	758.78	757.51	763.93	39	4.4	0.15	0.45%	21	3.256%	28.6
														40.8			758.51										

CITY OF BIRMINGHAM

PRELIMINARY CONSTRUCTION COST ESTIMATE

PUTNEY STREET SEWER STUDY (HENLEY TO ADAMS)
SEWER IMPROVMENTS - COMBINED RELIEF SEWER ALTERNATIVE

ITEM	DESCRIPTION	QUANTITY	UNITS		RATE	UNITS		COST
PUTNEY STREET								
	12" Combined Sewer	255	L.F.	@	$ 90	per L.F.	$	22,950
	10" Combined Sewer	185	L.F.	@	$ 80	per L.F.	$	14,800
	4'-0" Dia. Manhole	3	EA	@	$3,000	per EA	$	9,000
	Pavement Restoration	640	SYD	@	$ 40	per SYD	$	25,600
HENLEY STREET								
	18" Combined Sewer	220	L.F.	@	$ 130	per L.F.	$	28,600
	4'-0" Dia. Manhole	1	EA	@	$3,000	per EA	$	3,000
	Sewer Tap, 18"	1	EA	@	$2,500	per EA	$	2,500
	Pavement Restoration	350	SYD	@	$ 40	per SYD	$	14,000
					Estimated Construction Cost		*$*	*120,450*
					10% Contingency Cost		*$*	*12,550*
					PRELIMINARY ESTIMATED CONSTRUCTION COST		***$***	***133,000***

Note:

Estimated costs do not include catch basins, inlets, catch basin leads, service connections, sewer taps, or any other work related to paving project

Preliminary cost estimate is for information only, final items of work and quantities may change after final project design is completed

CITY OF BIRMINGHAM

PRELIMINARY CONSTRUCTION COST ESTIMATE

PUTNEY STREET SEWER STUDY (HENLEY TO ADAMS)
SEWER IMPROVMENTS - STORM RELIEF SEWER ALTERNATIVE

ITEM	DESCRIPTION	QUANTITY	UNITS		RATE	UNITS		COST
PUTNEY STREET								
	12" Storm Sewer	315	L.F.	@	$ 70	per L.F.	$	22,050
	4'-0" Dia. Manhole	3	EA	@	$3,000	per EA	$	9,000
	4'-0" Dia. Catch Basin	2	EA	@	$2,500	per EA	$	5,000
	Sewer Tap, 12"	1	EA	@	$2,500	per EA	$	2,500
	Sewer Point Repair, 8"	20	L.F.	@	$ 300	per L.F.	$	6,000
	Pavement Restoration	480	SYD	@	$ 40	per SYD	$	19,200
FUTURE SEWER REHABILITATION								
	8" Sewer Lining	355	L.F.	@	$ 55	per L.F.	$	19,525
					Estimated Construction Cost		*$*	*83,275*
					10% Contingency Cost		*$*	*8,725*
					PRELIMINARY ESTIMATED CONSTRUCTION COST		***$***	***92,000***

Note:

Preliminary cost estimate is for information only, final items of work and quantities may change after final project design is completed

BIRMINGHAM CITY COMMISSION MINUTES
JULY 14, 2014
MUNICIPAL BUILDING, 151 MARTIN
7:30 P.M.

I. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

Scott D. Moore, Mayor, called the meeting to order at 7:30 PM.

II. ROLL CALL

ROLL CALL: Present, Mayor Moore
Commissioner Dilgard
Commissioner Hoff
Commissioner McDaniel
Commissioner Nickita
Commissioner Rinschler
Mayor Pro Tem Sherman
Absent, None

Administration: City Manager Valentine, City Attorney Currier, Clerk Pierce, City Engineer O'Meara, Management Analyst Thomas, DPS Director Wood, Public Works Manager Matthews, Assistant Fire Chief Connaughton, Deputy Police Chief Clemence, Planner Ecker

III. PROCLAMATIONS, CONGRATULATORY RESOLUTIONS, AWARDS, APPOINTMENTS, RESIGNATIONS AND CONFIRMATIONS, ADMINISTRATION OF OATHS, INTRODUCTION OF GUESTS AND ANNOUNCEMENTS.

07-160-14 STATE REPRESENTATIVE MIKE MCCREADY

Representative McCready presented an update from the House of Representatives.

07-161-14 INTRODUCTION OF MANAGEMENT ANALYST AMANDA THOMAS

City Manager Valentine introduced the new Management Analyst Amanda Thomas.

07-162-14 APPOINTMENT TO THE RETIREMENT BOARD

MOTION: Motion by Sherman:
To appoint Christopher Conti, 759 Greenwood, to the Retirement Board as the citizen member to serve a three-year term to expire July 1, 2017.

VOTE: Yeas, 7
Absent, None

07-163-14 APPOINTMENT TO THE MUSEUM BOARD

MOTION: Motion by Hoff:
To appoint Marty Logue, 2010 Buckingham, as a member to the Museum Board to serve a three- year term to expire July 5, 2017.

MOTION: Motion by Nickita:

To appoint Gretchen Maricak, 1040 Chapin, as a member to the Museum Board to serve a three- year term to expire July 5, 2017.

MOTION: Motion by Sherman:
To appoint Shawn O'Rourke, 540 Berwyn, as a member to the Museum Board to serve a three-year term to expire July 5, 2017.

VOTE ON NOMINATION OF LOGUE:
Yeas, 7
Absent, None

VOTE ON NOMINATION OF MARICAK:
Yeas, 7
Absent, None

VOTE ON NOMINATION OF O'ROURKE:
Yeas, 7
Absent, None

07-164-14 APPOINTMENT TO THE MULTIMODAL TRANSPORTATION BOARD

The Commission interviewed the following individuals for appointment to the Multimodal Transportation Board:

- Stuart Bordman, 1091 Lake Park
- Alicia Chandler, 955 Shirley
- Malcolm Hendy, 2336 Northlawn

MOTION: Motion by Hoff:
To appoint Stuart Bordman, 1091 Lake Park, to the Multi-modal Transportation Board, as the Member-at- large from different geographical areas of the City, to complete a three-year term to expire March 24, 2017.

MOTION: Motion by Sherman:
To appoint Alicia Chandler, 955 Shirley, to the Multi-modal Transportation Board, as the Member-at- large from different geographical areas of the City, to complete a three-year term to expire March 24, 2017.

VOTE ON NOMINATION OF BORDMAN:
Yeas, 4 (Hoff, Rinschler, McDaniel, Dilgard)
Absent, None

Mr. Bordman was appointed to the Multimodal Transportation Board.

The Clerk administered the oath to the appointed board members.

IV. CONSENT AGENDA

All items listed on the consent agenda are considered to be routine and will be enacted by one motion and approved by a roll call vote. There will be no separate discussion of the items unless a commissioner or citizen so requests, in which event the item will be removed from the general order

of business and considered under the last item of new business.

07-165-14 APPROVAL OF CONSENT AGENDA

The following item was removed from the consent agenda:

- Item N (Elevator Maintenance Contract) by Commissioner Sherman

MOTION: Motion by Rinschler, seconded by Hoff:

To approve the consent agenda as follows:

A. Approval of City Commission/Planning Board Workshop Session minutes of June 16, 2014.

B. Approval of City Commission meeting minutes of June 23, 2014.

C. Approval of warrant list, including Automated Clearing House payments, of June 25, 2014 in the amount of $333,526.44.

D. Approval of warrant list, including Automated Clearing House payments, of July 2, 2014 in the amount of $472,776.60.

E. Approval of warrant list, including Automated Clearing House payments, of July 9, 2014 in the amount of $907,277.44.

F. Resolution accepting the resignation of Virginia Reynolds from the Public Arts Board, thanking Ms. Reynolds for her service, and directing the Clerk to begin the process to fill the vacancy.

G. Resolution approving a request from the Piety Hill Chapter, National Society Daughters of the American Revolution to hold the Veteran's Day Wreath Laying Ceremony and aerial fly over on November 11, 2014 at 11:00AM, pursuant to any minor modifications that may be deemed necessary by administrative staff at the time of the event.

H. Resolution approving the appointment of election inspectors for the August 5, 2014 Primary Election pursuant to MCL 168.674(1) and authorizing the City Clerk to make revisions as needed.

I. Resolution approving chemical/fertilizer purchases for Lincoln Hills and Springdale golf courses from Harrell's for $16,000, Residex Turfgrass for $24,000, Great Lakes Turf for $8,000, and John Deere Landscapes for $2,500. Funds will be charged to account numbers 584/597-753.001-729.0000.

J. Resolution awarding the contract, for the replacement of matting at the Birmingham Ice Sports Arena, to All-American Arena Products, of Little Canada, MN in the amount of $13,615.00, to be funded from Capital Projects Fund account #401-901.001-977.0000. Further, authorizing the Mayor and City Clerk to sign the agreement on behalf of the City upon receipt of required insurances. And approving the appropriation and budget amendments to the fiscal year 2014-2015 budget as follows:

Capital Projects Fund

Revenues:

Draw from fund balance	401-000.000-400.0000	$ 1,115.00
Total Revenue Adjustments		$ 1,115.00

Expenditures:

Buildings	401-901.001-977.0000	$ 1,115.00
Total Expenditure Adjustments		$ 1,115.00

K. Resolution waiving the formal bidding requirements and approving the purchase of repairs to the Rotary brand AP52E-200 16,000 lb. capacity truck lift in the motor pool garage from Allied Inc. in the amount not to exceed $9,655.00. Funds for the truck lift repairs are available in the Auto Equipment Fund account #641.441.006-971.0100.

L. Resolution approving Change Order No. 1 to Contract 7-14(SW), in the amount not to exceed $42,500.00, to Luigi Ferdinandi & Son Cement Company for concrete parking lot

and sidewalk repairs at the Department of Public Services facility. Funds for this purchase are available in the Capital Projects Fund account #401-901.013-977.0000.

M. Resolution approving the agreement with Tech Mechanical Inc., in the amount not to exceed $6,654.00 to perform replacement of the HVAC System for the Birmingham Historical Museum & Park in the City of Birmingham; and further authorizing the mayor to sign the agreement on behalf of the City. Further, approving the appropriations and amendments to the fiscal year 2014-2015 budget as follows:

General Fund

Revenues:

Draw from fund balance	101-000.000-400.0000	$ 6,654.00
Total Revenue Adjustments		$ 6,654.00

Expenditures:

Buildings- Allen House	101-804.002-977.0000	$ 6,654.00
Total Expenditure Adjustments		$ 6,654.00

O. Resolution waiving the normal bidding requirements and accepting the quote as written from Physio-Control to purchase the Lucas II chest compression device in the amount of $14,270.35 using unused federal grant funds of $9,045.00 and $5,225.35 from the Fire Department budget account #101-336.000-971.0100.

P. Resolution authorizing the City Manager to cast a vote, on the City's behalf, for the three incumbent members of the Michigan Municipal League Workers' Compensation Fund Board of Trustees for two-year terms, beginning October 1, 2014.

ROLL CALL VOTE:	Yeas,	Commissioner Dilgard
		Commissioner Hoff
		Commissioner McDaniel
		Commissioner Nickita
		Commissioner Rinschler
		Mayor Pro Tem Sherman
		Mayor Moore
	Nays,	None
	Absent,	None
	Abstentions,	None

V. UNFINISHED BUSINESS

VI. NEW BUSINESS

07-166-14 PUBLIC HEARING – SPECIAL LAND USE PERMIT TOAST BIRMINGHAM, 203 PIERCE

Mayor Moore opened the Public Hearing to consider a Special Land Use Permit Amendment for Toast Birmingham, 203 Pierce at 7:49 PM.

Planner Ecker explained the request from Toast Birmingham to add an outdoor dining platform. She noted that the platform would require the use of two on-street parking spaces and one parking meter would have to be removed. The platform would add an additional twenty-eight seats.

Commissioner Dilgard expressed concern with taking away two parking spaces with the current parking situation.

Commissioner Hoff pointed out that a letter was received from Leslie Rogers, 180 Pierce, opposed to the proposed platform.

Ms. Ecker confirmed for Commissioner Hoff that the ordinance does not restrict outdoor dining to the sidewalk or a platform. Commissioner Hoff expressed concern with eliminating two parking spaces on Pierce due to the parking issue. She expressed concern with increasing the size of the bistros as it was not the intent of the bistro ordinance.

Commissioner Rinschler agreed that parking is a serious issue, but noted that other platforms have been approved on Pierce. Commissioner Nickita pointed out that Martin Street has been rebuilt since the previous request by Toast to add a platform.

Mayor Pro Tem Sherman pointed out that taking away parking spaces sends a double message with the appearance of a parking issue. Commissioner McDaniel agreed that the timing of the request is wrong and noted that he does not have a problem with the proposed size of the platform.

Chris Longe, representing Toast Birmingham, acknowledged the parking deficit and noted that not allowing the platform on two spaces will not make a significant impact on the deficit.

Dorothy Conrad suggested postponing the decision as a platform removes parking in the day and evening.

Cheryl Daskas, Tender, expressed opposition to the platform and commented that there is a parking crisis.

The Mayor closed the Public Hearing at 8:18 PM.

The Commission took no action.

07-167-14 PUBLIC HEARING OF NECESSITY
2014 CAPESEAL PROGRAM

Mayor Moore opened the Public Hearing of Necessity for the 2014 Capeseal Program at 8:18 PM.

Public Works Manager Matthews presented the 2014 Capeseal Program. City Engineer O'Meara confirmed for Mayor Pro Tem Sherman that the City has not received any petitions to improve these streets.

Mayor Pro Tem Sherman and Mayor Moore commented on the benefits of a permanent street versus an unimproved road. Mr. Matthews and Mr. O'Meara explained the difference between asphalt and chipseal and an improved street.

Jack Burns, Putney, expressed support of the sealcoat. He noted that the sewers, not the street, are the problem on Putney. Mr. O'Meara noted that the sewers were camera scoped and no issues were found. He noted it could be that the sewers are undersized for the area.
The Commission suggested Mr. Burns meet with City Engineer O'Meara for further discussion on the issue.

Heather Carmona, Lakeside/Oak, explained the uniqueness of her corner lot and expressed concern with the path on the corner. DPS Director Wood noted that she has reviewed the site and will address Ms. Carmona's concerns.

Mayor Moore confirmed for Michael Pilus, Pine St., that the cost to improve a road is more than the capeseal.

Anthony Long, Smith/Cummings, questioned how to begin the petition process to improve the road. Mayor Moore suggested Mr. Long meet with City Engineer O'Meara.

Richard & Beth Bommarito, Abbey/Poppleton, questioned the method of assessment and whether any adjustments could be made. Mr. Valentine explained that the cost is based on City policy and there is no method for appeal. Mr. Matthews explained that only the frontage on Abbey will be capesealed.

The Mayor closed the Public Hearing at 8:56 PM.

The Commission discussed the program and the need for residents to understand the benefits of improved streets. Commissioner Hoff noted that if there is a number of residents who want their street removed from the capeseal program, to contact City Staff.

In response to a question from Mayor Pro Tem Sherman, City Attorney Currier confirmed that a street could be removed from the list at the public hearing of confirmation. However, if the residents came forward before the hearing of confirmation, staff would have time to recalculate the costs.

MOTION: Motion by Hoff, seconded by McDaniel:
To declare necessity for the improvement to be known as 2014 Cape Seal Program-Public Street Improvement; further, to approve the detailed cost estimates submitted by the Department of Public Services; further, to create a special assessment district and special assessments levied in accordance with benefits against the properties as described above; further, that the following method of assessment be adopted:

1. Eighty-five percent of the front-foot costs for improvement are assessed on all property fronting on the improvement.
2. Twenty-five percent of the side-foot costs for improvement are assessed on all residential property siding on the improvement.
3. Eighty-five percent of the side-foot costs for improvement are assessed on improved business property siding on the improvement.
4. Twenty-five percent of side-foot costs for improvement are assessed on vacant business property siding on the improvement.

The, remaining balance, 15% and 75%, front footage and side footage respectively, are paid by the city.

Further, to direct the City Manager to prepare the special assessment roll and present the same to the Commission for confirmation at the public hearing on July 28, 2014.

VOTE: Yeas, 7
Nays, None
Absent, None

The Commission agreed that if there is a street coming forward with a petition for improvement or if there is a street with an overriding issue as to why it should not be part of the program, it must be presented to the City by July 22nd.

The Commission received a letter from David and Tina Blodgett, 839 Randall Court opposed to the street improvements.

The Commission received a letter from Brian Day and Carla Calabrese, 646 Kimberley, requesting a re-evaluation of the assessment and requesting an installment plan for payments.

07-168-14 OFF-STREET PARKING REQUIREMENTS
33680 – 33692 WOODWARD AVE

City Planner Ecker presented the request to utilize four parking spaces on Benneville to fulfill a portion of the off-street parking requirements.

Commissioner Hoff suggested the Planning Department re-evaluate the parking requirements. Ms. Ecker explained that the Woodward Gateway Study will address this issue.

MOTION: Motion by McDaniel, seconded by Dilgard:
To approve the use of 4 parking spaces on Bennaville to fulfill a portion of the off-street parking requirements per Article 4, section 4.43 (G)(1) of the Zoning Ordinance for 33680 – 33692 Woodward Avenue, subject to any recommended repairs required by the Engineering Department.

VOTE: Yeas, 7
Nays, None
Absent, None

07-169-14 MAST ARM TRAFFIC SIGNALS MASTER PLAN

City Engineer O'Meara presented the opportunity to upgrade the traffic signal at Woodward and Maple. He stated that MDOT has budgeted to upgrade the signal in the 2015-2016 budget year. He explained that the mast arm signals have been installed in the downtown, however there is no City policy which addresses the locations.

In response to a question from Commissioner Nickita, Mr. O'Meara explained that the Woodward Avenue Action Association did a study of the corridor and recommended the Woodward and Maple intersection be a mast arm signal.

Commissioner Nickita expressed reluctance for making a master plan on Old Woodward since the street has not been designed. Commissioner Rinschler agreed that there is no need for a plan. Commissioner McDaniel noted that the mast arm signals are massive and out of scale in the downtown.

MOTION: Motion by Rinschler, seconded by McDaniel:
To direct staff to notify the MI Dept. of Transportation relative to the City's desire to install a mast arm signal at the intersection of Woodward Ave. and Maple Rd. in conjunction with MDOT's upcoming signal modernization, and to budget for the work accordingly in the fiscal year 2015/16 budget request.

City of Birmingham

Paul O'Meara <pomeara@bhamgov.org>

Re: Thank You - Putney St. Sewer Project

1 message

ZERVOS ELLENE <ellenemzervos@gmail.com> Wed, Nov 26, 2014 at 1:24 PM
To: Paul O'Meara <pomeara@bhamgov.org>
Cc: lwood@ci.birmingham.mi.us, Jack Burns <jackburns1@comcast.net>

Paul,

I would also like to thank you on behalf of the Putney neighbors, but especially on my own behalf!
You have been responding to our emails, phone calls and have met with us for well over a year.
Your responses to our requests have been prompt, thorough and patient. However, despite all of your good efforts, I was pessimistic about the outcome and I did not expect the City to deal with us in a fair manner.
Now, we can actually look forward to 'using' our basements, once again! And more important to me, in less than a year's time, I will no longer fear that, following every 'heavy rainfall' forecast, I will be in the basement with a garden hose, buckets and bleach.

Thank you very much.

Ellene Zervos
906 Putney

On Nov 26, 2014, at 11:14 AM, Jack Burns wrote:

November 26, 2014

Paul O'Meara
City of Birmingham

Paul:

On behalf of all the residents of Putney Street I would like to say THANK YOU for your efforts toward solving our sewer problems.

The analysis and project proposal that you presented to our group today (November 26) is truly a "win/win" for all affected.

We look forward to continuing to work with you and the other departments in the City that will initiate and complete this project as you've proposed.

Thank you once again and I hope you and your family have a very happy and safe Thanksgiving.

Jack Burns
898 Putney St.
Birmingham

avast! be free This email has been checked for viruses by Avast antivirus software.
www.avast.com

City of Birmingham

Paul O'Meara <pomeara@bhamgov.org>

Thank You - Putney St. Sewer Project

1 message

Jack Burns <jackburns1@comcast.net> Wed, Nov 26, 2014 at 11:14 AM
To: Paul O'Meara <pomeara@bhamgov.org>
Cc: ZERVOS ELLENE <ellenemzervos@gmail.com>, lwood@ci.birmingham.mi.us

November 26, 2014

Paul O'Meara

City of Birmingham

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Jack Burns

898 Putney St.

Birmingham