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GLENVIEW WALK ESTATES
SUBDIVISION OBSERVATION REPORT

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HR GREEN JOB NO. 86120056

Glenview Walk Estates Subdivision Observation Report

HR Green has performed a review of the available documents for the subdivision improvements located in the Glenview Walk Estates subdivision and field observation of the work completed by the developer. Subsequently, HR Green has compiled a punchlist of unfinished items that were part of the proposed improvements per the available subdivision documents.

The Glenview Walk Estates Subdivision Observation Report includes the following items:

- Punchlist identifying the outstanding and deficient subdivision improvement items
- Detention Basin Verification and Exhibit A
- Parcel Identification (Exhibit B)
- Engineer's Opinion of Probable Cost (E.O.P.C.) (Exhibit C)
- Location Map (Exhibit D)

The following documents were used in preparing the punchlist scope of work:

- Plat of Subdivision
- Improvement Plans for Glenview Walk Estates, dated March 10, 2004, prepared by Morris Engineering, Inc.
- Glenview Walk Estates P.U.D. Landscape Plat, dated April 18, 2003, prepared by Sids (Sheet 1 of 2)
- Pavement cores performed through HR Green
- Photographs

The following documents were unavailable:

- Glenview Walk Estates P.U.D. Landscape Plat, dated April 18, 2003, prepared by Sids (Sheet 2 of 2)
- Record drawings
- Developer agreements
- Soil borings
- Meeting minutes
- Daily field reports

I. PUNCHLIST

It is recommended that acceptance of this subdivision be contingent upon the completion of the noted outstanding and deficient items, and subsequent observation and approval by the Village of Homer Glen.

Roadway

Roadway improvements were observed for compliance with the approved subdivision improvement plans. The subdivision pavement includes the Hot-Mix Asphalt (HMA) binder course without the surface course. HR Green had pavement cores taken at random

locations on the roadways to identify the actual binder course and aggregate base course thicknesses.

The following table includes the planned pavement depths and actual pavement depths at locations randomly chosen on the roadways.

Roadway	Plan Surface Depth	Actual Surface Depth	Plan Binder Depth	Actual Binder Depth	Plan Agg. Base Cse. Depth	Actual Agg. Base Cse. Depth
Cecelia Court	1.5"	0"	2.5"	1.5"	12"	10"
Hiller Drive	1.5"	0"	2.5"	1"	12"	11"
James Lane	1.5"	0"	2.5"	2.5"	12"	11"
Jeanne Lane	1.5"	0"	2.5"	2"	12"	11"
Lift Station Access Road	2"	0"	N/A	1.5"	12"	7"
Main Access Road	1.5"	0"	2.5"	2.5"	12"	11"

Note: HMA surface course remains unpaved for all streets. A thin layer of surface course exists on the Lift Station Access Road. There is no curb and gutter along the Lift Station Access Road.

Pavement distress is evident in various areas due to the lack of plan pavement depths and the exposure to inadequate drainage from the pavement into the gutter. The difference between the binder course elevations and the gutter elevations will require an estimated 2" of HMA overlay thickness throughout Glenview Walk Estates. The pavement distress can be resolved by removing the existing binder course pavement and underlying aggregate/subgrade material and replacement with 12" of new aggregate base course and 2.5" of binder course. Following the pavement patching would be the HMA surface course overlay to complete the roadway improvements.

It is recommended that the binder course that exists be cold milled along the edge of the roadways at various curb-line drainage structures and where the top of binder course elevations are higher than required, which would result in between 0" to 1" of HMA surface course overlay in these areas without the recommended milling corrections. It appears as if the binder course elevations were placed higher at the some curb-line drainage structure areas to allow for storm water to drain into the structures and not pond at the edge of the road. The cold milling is necessary to provide the minimum 1.5" HMA surface course thickness as shown in the plans. Variable depth cold milling between 0" and 1.75" is recommended to achieve the average 2" of HMA surface course overlay thickness. Cold milling the existing surface course pavement to establish a butt joint near the intersection of the Main Access Road and 159th Street will also be necessary.

The following pavement improvements are recommended prior to acceptance of the subdivision by the Village of Homer Glen.

Roadway	Pavement Patching (2.5" HMA Binder Course with 12" Aggregate Base Course, Type B)	HMA Surface Course, Mix 'C', N50	HMA Surface Removal – Butt Joint	HMA Surface Removal, Variable Depth (0" to 1.75")
Cecelia Court	N/A	222 Tons (1,980 SY at 2")	N/A	39 SY (50' X 7')
Hiller Drive	93 SY (60' X 14')	362 Tons (3,236 SY at 2")	N/A	412 SY (60' X 28', 40' X 7', 50' X 28', 15' X 7', 30' X 7')
James Lane	96 SY (30' X 10', 40' X 14')	620 Tons (5,538 SY at 2")	N/A	498 SY (50' X 28', 60' X 28', 50' X 28')
Jeanne Lane	389 SY (100' X 28', 50' X 14')	781 Tons (6,969 SY at 2")	N/A	451 SY (40' X 28', 20' X 7', 50' X 28', 50' X 28')
Lift Station Access Road	143 SY (40' X 5', 30' X 12', 60' X 6', 30' X 12')	82 Tons (973 SY at 1.5")	N/A	N/A
Main Access Road	N/A	227 Tons (2,028 SY at 2")	89 SY (80' X 10')	86 SY (40' X 11', 30' X 11')
TOTALS:	721 SY	2,294 Tons	89 SY	1,486 SY

Notes:

1. Due to binder course elevation deficiencies and roadway settlement, HR Green provided estimated average surface course thicknesses necessary to finish paving the roadway according to plan.
2. The Lift Station Access Road contains a thin layer of surface course, however, it is recommended to provide a 1.5" surface course overlay on the roadway.

Prior to the pavement improvements, combination concrete curb and gutter replacement will be necessary. The curb and gutter is to be removed and replaced. Each section shall be cut to full depth, removed and replaced with dowel bars, proper form work and finishing techniques.

The following table includes sections of curb and gutter determined to be unacceptable because of heaving, settlement and/or damage.

Roadway	Combination Concrete Curb and Gutter Removal and Replacement
Cecelia Court	60 FT Lot 26/27
Hiller Drive	30 FT Outlot A: 20' Outlot B: 10'
James Lane	60 FT Outlot B: 15' Outlot D: 15' Lot 61: 10' 15629: 10' 15646: 5' 15647: 5'
Jeanne Lane	75 FT Lot 7: 10' Lot 49/50: 10' 15521: 10' 15601: 5' 15622: 20' 15663: 10' 15700: 10'
Lift Station Access Road	N/A
Main Access Road	70 FT East side (Commercial property (Lot 73))
TOTAL:	295 FT

Note: It is recommended to include concrete sidewalk in lieu of the aggregate for the walking path as it crosses the parkway areas adjacent to Outlots A, B and D. A width of 8' is recommended to match the existing walking path width (varies 5' to 8'). As a result, the existing curb would need to be removed and replaced to accommodate sidewalk approach ramps.

Storm Sewer Appurtenances

Storm Sewer structures were observed for compliance with the approved subdivision improvement plans. It is recommended that all storm sewer structures be cleaned in addition to the correction of any deficiencies prior the Village of Homer Glen taking ownership and maintenance responsibilities of the storm sewer system.

It is recommended that the following defects be repaired prior to Village acceptance of the subdivision.

Item No.	Structure #	Defect/Corrective Action
1.	INL EX 1	▪ Clean out debris
2.	INL 58	▪ Clean out debris
3.	INL 45	▪ Clean out debris
4.	INL 59	▪ Clean out debris ▪ Remove filter fabric
5.	INL 41	▪ Clean out debris
6.	INL 38	▪ Clean out debris
7.	INL 35	▪ Clean out debris
8.	INL 30	▪ Clean out debris ▪ Remove filter fabric
9.	INL 13	▪ Clean out debris ▪ Remove filter fabric
10.	INL 19	▪ Clean out debris ▪ Remove filter fabric
11.	INL 25	▪ Clean out debris
12.	INL 49	▪ Clean out debris ▪ Remove filter fabric
13.	INL 3	▪ Clean out debris ▪ Frame adjustment due to curb and gutter repair
14.	INL 1	▪ Clean out debris ▪ Frame adjustment due to curb and gutter repair
15.	CB EX 1	▪ Clean out debris
16.	CB EX 2	▪ Clean out debris
17.	CB 46	▪ Clean out debris

18.	CB 60	▪ Clean out debris
19.	CB 39	▪ Clean out debris
20.	CB 40	▪ Clean out debris
21.	CB 34	▪ Clean out debris
22.	CB 41	▪ Clean out debris
23.	CB 36	▪ Clean out debris
24.	CB 29	▪ Clean out debris ▪ Frame adjustment due to curb and gutter repair
25.	CB 31	▪ Clean out debris ▪ Replaced cracked grate ▪ Frame adjustment due to curb and gutter repair
26.	CB 28	▪ Clean out debris
27.	CB 2	▪ Clean out debris
28.	CB 4	▪ Clean out debris ▪ Frame adjustment due to curb and gutter repair
29.	CB 43	▪ Clean out debris
30.	CB 5	▪ Clean out debris ▪ Frame adjustment due to curb and gutter repair
31.	CB 6	▪ Clean out debris
32.	CB 8	▪ Clean out debris
33.	CB 9	▪ Clean out debris
34.	CB 12	▪ Clean out debris ▪ Remove filter fabric
35.	CB 55	▪ Clean out debris
36.	CB 18	▪ Clean out debris
37.	CB 15	▪ Clean out debris ▪ Remove filter fabric
38.	CB 22	▪ Clean out debris
39.	CB 20	▪ Clean out debris

40.	CB 14	<ul style="list-style-type: none"> ▪ Clean out debris
41.	CB 56	<ul style="list-style-type: none"> ▪ Clean out debris
42.	CB 57	<ul style="list-style-type: none"> ▪ Clean out debris ▪ Remove filter fabric
43.	CB 42	<ul style="list-style-type: none"> ▪ Clean out debris
44.	CB 26	<ul style="list-style-type: none"> ▪ Clean out debris ▪ Frame adjustment due to curb and gutter repair ▪ Remove filter fabric
45.	MH 49	<ul style="list-style-type: none"> ▪ Clean out debris ▪ Provide concrete bench
46.	MH 37	<ul style="list-style-type: none"> ▪ Could not locate. Assume lid is buried. Adjust frame to final grade. ▪ Clean out debris (assumption) ▪ Provide concrete bench (assumption)
47.	MH 50	<ul style="list-style-type: none"> ▪ Clean out debris ▪ Provide concrete bench
48.	MH 32	<ul style="list-style-type: none"> ▪ Clean out debris ▪ Provide concrete bench
49.	MH 58	<ul style="list-style-type: none"> ▪ Clean out debris ▪ Provide concrete bench
50.	MH 10	<ul style="list-style-type: none"> ▪ Clean out debris ▪ Provide concrete bench
51.	MH 16	<ul style="list-style-type: none"> ▪ Clean out debris ▪ Provide concrete bench
52.	MH 17	<ul style="list-style-type: none"> ▪ Could not locate. Assume lid is buried. Adjust frame to final grade. ▪ Clean out debris (assumption) ▪ Provide concrete bench (assumption)
53.	MH 21	<ul style="list-style-type: none"> ▪ Could not locate. Assume lid is buried. Adjust frame to final grade. ▪ Clean out debris (assumption) ▪ Provide concrete bench (assumption)
54.	MH 23	<ul style="list-style-type: none"> ▪ Could not locate. Assume lid is buried. Adjust frame to final grade. ▪ Clean out debris (assumption) ▪ Provide concrete bench (assumption)
55.	MH 4	<ul style="list-style-type: none"> ▪ Could not locate. Assume lid is buried. Adjust frame to final grade. ▪ Clean out debris (assumption) ▪ Provide concrete bench (assumption)
56.	MH 27 RESTRICTOR	<ul style="list-style-type: none"> ▪ Clean out debris ▪ Remove filter fabric ▪ Include steps

57.	OUTFALL STRUTCURE	▪ Clean out debris
58.	FES EX 1	▪ Clean out debris
59.	FES 14	▪ Clean out debris
60.	FES 2	▪ Clean out debris
61.	FES 3	▪ Clean out debris
62.	FES 1	▪ Clean out debris
63.	FES 4	▪ Clean out debris
64.	FES 10	▪ Clean out debris
65.	FES 9	▪ Clean out debris
66.	FES 8	▪ Clean out debris
67.	FES 11	▪ Clean out debris
68.	FES 6	▪ Clean out debris
69.	FES 7	▪ Clean out debris ▪ Provide missing grate

Sanitary Sewer Appurtenances

Sanitary Sewer manholes were observed for compliance with the approved subdivision improvement plans. It is HR Green's understanding that the sanitary sewer system is owned and maintained by Illinois American Water. These improvements are not owned and maintained by the Village of Homer Glen, however, it would be beneficial to observe the sanitary sewer manholes to identify any defects to the structures that could impact other public infrastructure improvements and threaten the health and safety of the public.

A lift station exists at the northwest corner of the Glenview Walk Estates subdivision. The lift station is owned and maintained by Illinois American Water.

It is recommended that the following defects be coordinated with Illinois American Water for review and correction prior to Village acceptance of the subdivision.

Item No.	Structure #	Defect/Corrective Action
1.	MH 7	▪ Clean out debris

2.	MH 12	<ul style="list-style-type: none"> ▪ Remove 4 X 4 stub in restored parkway area
3.	MH 19	<ul style="list-style-type: none"> ▪ Could not locate. Assume lid is buried ▪ Adjust frame to match final grade (assumption)
4.	Air Release Valve 1	<ul style="list-style-type: none"> ▪ Could not locate. Assume lid is buried ▪ Adjust frame to match final grade (assumption)
5.	Air Release Valve 2	<ul style="list-style-type: none"> ▪ Could not locate. Assume lid is buried ▪ Adjust frame to match final grade (assumption)

Note: The letter "S" is marked in the curb to identify sanitary sewer service crossing locations.

Watermain Appurtenances

Watermain fire hydrants, valve boxes and water service buffalo boxes were observed for compliance with the approved subdivision improvement plans. It is HR Green's understanding that the water supply system is owned and maintained by Illinois American Water. These improvements are not owned and maintained by the Village of Homer Glen, however, it would be beneficial to observe the watermain appurtenances to identify any defects that could impact other public infrastructure improvements and threaten the health and safety of the public.

HR Green was not responsible to determine if the valves serving water service lines, fire hydrants or watermain mainline were operable (keyable). Assumptions were made based on the visual condition of the appurtenances and the recommended associated repairs. It is recommended to have the Village of Homer Glen/Illinois American Water determine if every valve within the subdivision, which may not be identified in the punch list, is functioning properly prior to performing corrections to water main appurtenances to establish any adjustments to the scope of work.

It is recommended that the following defects be coordinated with Illinois American Water for review and correction prior to Village acceptance of the subdivision.

Item No.	Appurtenance #	Defect/Corrective Action
1.	*FH EX 1	<ul style="list-style-type: none"> ▪ Auxiliary valve box is leaning and needs to be repaired/replaced
2.	FH 3	<ul style="list-style-type: none"> ▪ Auxiliary valve box appears to be set too low. Adjust to match final grade.
3.	FH 5	<ul style="list-style-type: none"> ▪ Auxiliary valve box appears to be set too low. Adjust to match final grade.
4.	FH 7	<ul style="list-style-type: none"> ▪ Auxiliary valve box appears to be set too low. Adjust to match final grade.
5.	FH 8	<ul style="list-style-type: none"> ▪ Auxiliary valve box is buried and needs to be adjusted to match final grade
6.	FH 9	<ul style="list-style-type: none"> ▪ Auxiliary valve box appears to be set too low. Adjust to match final grade.

7.	FH 11	<ul style="list-style-type: none"> ▪ Auxiliary valve box appears to be set too low. Adjust to match final grade.
8.	FH 12	<ul style="list-style-type: none"> ▪ Auxiliary valve box is buried and needs to be adjusted to match final grade
9.	FH 13	<ul style="list-style-type: none"> ▪ Auxiliary valve box is buried and needs to be adjusted to match final grade
10.	FH 15	<ul style="list-style-type: none"> ▪ Auxiliary valve box appears to be set too low. Adjust to match final grade.
11.	FH 16	<ul style="list-style-type: none"> ▪ Auxiliary valve box appears to be set too low. Adjust to match final grade.
12.	FH 19	<ul style="list-style-type: none"> ▪ Auxiliary valve box needs to be replaced due to damage
13.	FH 20	<ul style="list-style-type: none"> ▪ Auxiliary valve box appears to be set too low. Adjust to match final grade.
14.	FH 21	<ul style="list-style-type: none"> ▪ Auxiliary valve box appears to be set too low. Adjust to match final grade.
15.	Valve Vault 1	<ul style="list-style-type: none"> ▪ Replace lid which says "Sanitary" with lid that includes the word "Water" on it.
16.	Valve Box 7	<ul style="list-style-type: none"> ▪ Remove 4 X 4 stub from restored area
17.	Valve Box 8	<ul style="list-style-type: none"> ▪ Replace cracked valve box
18.	B-Box Lot 1	<ul style="list-style-type: none"> ▪ B-Box appears to be set too low. Adjust to match final grade.
19.	B-Box Lot 2	<ul style="list-style-type: none"> ▪ Could not locate. Assume damaged and replacement will be necessary.
20.	B-Box Lot 4	<ul style="list-style-type: none"> ▪ Could not locate. Assume damaged and replacement will be necessary.
21.	B-Box Lot 6	<ul style="list-style-type: none"> ▪ B-Box appears to be set too low. Adjust to match final grade.
22.	B-Box Lot 10	<ul style="list-style-type: none"> ▪ Could not locate. Assume damaged and replacement will be necessary.
23.	B-Box Lot 12	<ul style="list-style-type: none"> ▪ B-Box appears to be set too low. Adjust to match final grade.
24.	B-Box Lot 14	<ul style="list-style-type: none"> ▪ Could not locate. Assume damaged and replacement will be necessary.
25.	B-Box Lot 18	<ul style="list-style-type: none"> ▪ Could not locate. Assume damaged and replacement will be necessary.
26.	B-Box Lot 19	<ul style="list-style-type: none"> ▪ Could not locate. Assume damaged and replacement will be necessary.
27.	B-Box Lot 20	<ul style="list-style-type: none"> ▪ Could not locate. Assume damaged and replacement will be necessary.
28.	B-Box Lot 21	<ul style="list-style-type: none"> ▪ Could not locate. Assume damaged and replacement will be necessary.
29.	B-Box Lot 22	<ul style="list-style-type: none"> ▪ Could not locate. Assume damaged and replacement will be necessary.

30.	B-Box Lot 26	▪ Could not locate. Assume damaged and replacement will be necessary.
31.	B-Box Lot 27	▪ B-Box is damaged and needs to be replaced
32.	B-Box Lot 28	▪ B-Box is damaged and needs to be replaced
33.	B-Box Lot 29	▪ B-Box appears to be set too low. Adjust to match final grade.
34.	B-Box Lot 30	▪ B-Box appears to be set too low. Adjust to match final grade.
35.	B-Box Lot 32	▪ B-Box appears to be set too low. Adjust to match final grade.
36.	B-Box Lot 33	▪ Could not locate. Assume damaged and replacement will be necessary.
37.	B-Box Lot 35	▪ Could not locate. Assume damaged and replacement will be necessary.
38.	B-Box Lot 37	▪ Could not locate. Assume damaged and replacement will be necessary.
39.	B-Box Lot 38	▪ Could not locate. Assume damaged and replacement will be necessary.
40.	B-Box Lot 41	▪ Could not locate. Assume damaged and replacement will be necessary.
41.	B-Box Lot 42	▪ Could not locate. Assume damaged and replacement will be necessary.
42.	B-Box Lot 45	▪ Could not locate. Assume damaged and replacement will be necessary.
43.	B-Box Lot 51	▪ B-Box is damaged and needs to be replaced
44.	B-Box Lot 53	▪ Could not locate. Assume damaged and replacement will be necessary.
45.	B-Box Lot 54	▪ Could not locate. Assume damaged and replacement will be necessary.
46.	B-Box Lot 56	▪ Could not locate. Assume damaged and replacement will be necessary.
47.	B-Box Lot 60	▪ B-Box appears to be set too low. Adjust to match final grade.
48.	B-Box Lot 64	▪ Could not locate. Assume damaged and replacement will be necessary.
49.	B-Box Lot 67	▪ Could not locate. Assume damaged and replacement will be necessary.
50.	B-Box Lot 68	▪ B-Box appears to be set too low. Adjust to match final grade.
51.	B-Box Lot 70	▪ B-Box appears to be set too low. Adjust to match final grade.
52.	B-Box Lot 72	▪ Could not locate. Assume damaged and replacement will be necessary.

Notes:

1. The letter "W" is marked in the curb to identify water service crossing locations.
2. Water service buffalo boxes that appeared higher than future finished surrounding grades have not been identified in the deficiency list, as they can be lowered with minimal effort during the sidewalk and restoration improvements.

Sidewalk

Sidewalk improvements were observed for compliance with the approved subdivision improvement plans. The plans for Glenview Walk Estates include providing a 5' wide concrete sidewalk throughout the subdivision. Sidewalk has been installed adjacent to Outlots A, B and C and adjacent to lots where homes have been constructed. The punchlist includes completing proposed concrete sidewalk adjacent to undeveloped lots within the public Right-Of-Way and correcting any deficient sidewalk the exists.

It is critical to adhere to the State of Illinois American's with Disabilities Act (A.D.A.) requirements set forth for sidewalk approaches made accessible to the handicap. In order to obtain conformance with the plans and the State of Illinois requirements, A.D.A. compliant sidewalk approach improvements have been included in this report where sidewalk approaches are proposed or need corrections. In areas where the sidewalk approaches are incorrect, sidewalk removal and replacement will be necessary.

The following table includes recommendations for sidewalk related improvements to be performed prior to Village acceptance of the subdivision.

Roadway	P.C.C. Sidewalk (5" depth)	Sidewalk Removal and Replacement	Detectable Warnings
Cecelia Court	2,950 SF Lot 21: 130' X 5' Lot 22: 120' X 5' Lot 26: 50' X 5' Lot 27: 50' X 5' Lot 28: 80' X 5' Lot 29: 80' X 5' Lot 30: 80' X 5'	N/A	8 SF (SW corner at Jeanne Lane: 4' X 2')

<p>Hiller Drive</p>	<p>7,525 SF Outlot A: 12.5' X 8' Outlot B: 12.5' X 8' (South side - Commercial property (Lot 73): 1,015' X 5') Lot 1: 205' X 5' Lot 54: 85' X 5' Lot 72: 160' X 5'</p>	<p>25 SF (NW corner at James Lane: 5' X 5')</p>	<p>88 SF (Outlot A: 8' X 2') (Outlot B: 8' X 2') (SE corner at Main Access Road: 4' X 2') (NW corner at James Lane: 4' X 2') (NE corner at James Lane: 4' X 2') (NW corner at Jeanne Lane: 4' X 2') (NE corner at Jeanne Lane: 4' X 2') (SW corner at Jeanne Lane: 4' X 2') (SE corner at Jeanne Lane: 4' X 2')</p>
<p>James Lane</p>	<p>9,750 SF Outlot B: 12.5' X 8' Outlot D: 12.5' X 8' Lot 14: 130' X 5' Lot 18: 90' X 5' Lot 19: 100' X 5' Lot 20: 130' X 5' Lot 42: 195' X 5' Lot 56: 100' X 5' Lot 59: 100' X 5' Lot 60: 100' X 5' Lot 61: 100' X 5' Lot 62: 125' X 5' Lot 63: 150' X 5' Lot 64: 90' X 5' Lot 65: 90' X 5' Lot 67: 100' X 5' Lot 68: 100' X 5' Lot 70: 100' X 5' Lot 72: 110' X 5'</p>	<p>50 SF (NW corner at Hiller Drive: 5' X 5') (SE corner at Jeanne Lane: 5' X 5')</p>	<p>80 SF (Outlot B: 8' X 2') (Outlot D: 8' X 2') (NW corner at Hiller Drive: 4' X 2') (NE corner at Hiller Drive: 4' X 2') (NW corner at Jeanne Lane: 4' X 2') (NE corner at Jeanne Lane: 4' X 2') (SW corner at Jeanne Lane: 4' X 2') (SE corner at Jeanne Lane: 4' X 2')</p>

Jeanne Lane	14,365 SF Lot 1: 145' X 5' Lot 2: 100' X 5' Lot 4: 57' X 5' Lot 6: 90' X 5' Lot 7: 90' X 5' Lot 8: 90' X 5' Lot 10: 90' X 5' Lot 12: 76' X 5' Lot 14: 195' X 5' Lot 20: 180' X 5' Lot 21: 180' X 5' Lot 32: 150' X 5' Lot 33: 110' X 5' Lot 35: 60' X 5' Lot 37: 90' X 5' Lot 38: 90' X 5' Lot 39: 90' X 5' Lot 41: 90' X 5' Lot 42: 105' X 5' Lot 44: 92' X 5' Lot 45: 90' X 5' Lot 48: 90' X 5' Lot 49: 90' X 5' Lot 50: 90' X 5' Lot 51: 90' X 5' Lot 53: 103' X 5' Lot 54: 150' X 5'	25 SF (SE corner at James Lane: 5' X 5')	56 SF (SW corner at Cecelia Court: 4' X 2') (NW corner at Hiller Drive: 4' X 2') (NE corner at Hiller Drive: 4' X 2') (NW corner at James Lane: 4' X 2') (NE corner at James Lane: 4' X 2') (SW corner at James Lane: 4' X 2') (SE corner at James Lane: 4' X 2')
Lift Station Access Road	N/A	N/A	N/A
Main Access Road	N/A	N/A	N/A
TOTALS:	34,590 SF	100 SF	232 SF

Notes:

1. 5" of aggregate base course is to be included for the sidewalk improvements per the improvement plans.
2. It is recommended to include concrete sidewalk and A.D.A. compliant approaches in lieu of the aggregate for the walking path as it crosses the parkway areas adjacent to Outlots A, B and D. A width of 8' is recommended to match the existing walking path width (varies 5' to 8').

Street Lighting

The Glenview Walk Estates improvement plans provided proposed street light locations, however, no standard details were included. Decorative street lighting exists and the locations appear to have been installed at or near the plan locations. The decorative street light style matches the styles used in several subdivisions within the Village of Homer Glen. Visual day time and night time observations of the street lighting indicated that all street lights were functioning and no deficiencies were observed.

Signage and Pavement Markings

Signage improvements were included in the Glenview Walk Estates plans provided to HR Green. Random street name signs were observed throughout and it is evident that the majority of the street name signs were never installed or are missing. There are posts existing with no signage attached at some locations. No other signage besides limited street name signs was installed throughout the subdivision as indicated in the improvement plans with exception of a stop sign at the Main Access Road and 159th Street.

Pavement markings for stop bars and crosswalks were included in the improvement plans but do not exist. Pavement markings to be provided for the subdivision that have been included in this report should be installed upon completing the HMA surface course overlay.

The following table includes the recommended signage and pavement marking improvements to be performed prior to Village acceptance of the subdivision.

Road	R1-1 (Stop Signs) 30" X 30"	R2-1 (Speed Limit 25) 24" X 30"	W11-2 (Pedestrian Crossing Image) 30" X 30"	Street Name Signs	Crosswalk Pavement Markings (6" - White)	Stop Bar Pavement Markings (24" - White)
Cecelia Court	1 EA (At Jeanne Lane)	N/A	N/A	1 EA (At Jeanne Lane)	N/A	15 FT (At Jeanne Lane)
Hiller Drive	1 EA (At Main Access Road)	N/A	N/A	2 EA (At Jeanne Lane and Main Access Road)	N/A	15 FT (At Main Access Road)

James Lane	3 EA (At Hiller Drive and 2 at Jeanne Lane)	3 EA (Lot 20, Lot 43 and Lot 71)	2 EA (Lot 43 and Outlot D)	N/A	60 FT (Walking path crossing between Outlot B and D)	45 FT (Hiller Drive: 15'; Jeanne Lane: 15' X 2)
Jeanne Lane	1 EA (At Hiller Drive)	3 EA (Lot 14, Lot 41 and Lot 54)	N/A	3 EA (At Cecelia Court, Hiller Drive and James Lane)	N/A	15 FT (At Hiller Drive)
Lift Station Access Road	N/A	N/A	N/A	N/A	N/A	N/A
Main Access Road	N/A	N/A	N/A	1 EA (At Hiller Drive)	N/A	N/A
TOTALS:	6 EA	6 EA	2 EA	7 EA	60 FT	90 FT

Notes:

1. Regulatory and warning signs are to include one post per sign. 1 post is to be included per 2 street name signs unless posts exist without signs.
2. Street name sign types chosen by the Village are recommended to be in accordance with the Manual on Uniform Traffic Control Devices (M.U.T.C.D.).
3. Paint pavement markings are recommended to be installed.

Restoration and Landscaping

Restoration improvements within the public Right-Of-Way parkway areas are recommended for Village acceptance of the subdivision. The recommended restoration improvements consist of weed removal, placement of topsoil, seed, fertilizer and erosion control blanketing within the parkway areas between the sidewalk and the back of curb along with the space between the back of the proposed sidewalk and the Right-Of-Way line.

An estimated quantity of topsoil needed to complete the restoration improvements within the parkway has been included in the punchlist. A topsoil stockpile remains on Lots 19, 20, 21 and 22. During the observation of Glenview Walk Estates, HR Green noticed a contractor's topsoil pulverization and removal operations at the stockpile location. An estimated volume of the topsoil stockpile was calculated based on the measurements taken from June, 2012. Based on the aforementioned estimated volume, it can be

assumed that furnishing topsoil from outside of the subdivision site will not be necessary as a result of the topsoil stockpile quantity being in excess of the estimated volume required to complete the parkway restoration improvements. It is recommended that the topsoil needed to complete the restoration be pulverized from the stockpile and placed on site. It is recommended that the balance of the stockpiled topsoil no longer needed for the restoration improvements be hauled off site. Upon hauling the topsoil off site, it is recommended that the area remaining be provided with seed, fertilizer and erosion control blanket.

Outlots A, B, C and D that include basins and open space and the adjacent outlot roadway Right-Of-Way appear to be restored and maintained and restoration improvements are not recommended for these areas. The Main Access Road Right-Of-Way and median areas also appear to be restored with landscaping improvements.

A clay stockpile remains on the east side of the commercial property (Lot 73). An estimated volume of the clay has been calculated and HR Green has included the removal of this material as part of the punchlist. Upon having the clay removed from the site, it is recommended that the area remaining be provided with topsoil, seed, fertilizer and erosion control blanket.

Landscaping plans for Glenview Walk Estates were available for HR Green to compare the intended landscaping improvements to what currently exists. The landscape plan included a general layout of plantings within Outlots A, B, C and along the north side of the commercial property (Lot 73). The existing landscaping appears to meet the intended landscaping improvements with exception of the commercial property (Lot 73), where no improvements have been made. The landscape plan includes a brick and wood subdivision sign, which does exist on Outlot A. Two wooden bridges exist on Outlot B along the walking path as included in the landscape plan. The landscape plan includes aeration for the pond located on Outlot C. Aeration equipment was observed, however, HR Green did not witness aeration taking place during visits to the subdivision. It is recommended that further evaluation of the pond aeration be performed prior to acceptance of the subdivision.

HR Green, Inc. observed the native vegetation areas on Outlot A to determine compliance with the landscape plans. The following comments apply to the "Wetland Planting Area" located on Outlot A:

1. A meandering vegetative survey was conducted. Based on the emergent and wet prairie vegetation that was observed within the basins and adjacent side slopes, the subject areas are in compliance with the approved landscape plan.
2. A number of invasive weedy species were observed within the basin area (*Phalaris arundinacea*, *Lythrum salicaria*, and *Salix interior*). It is recommended that maintenance activities, such as spot herbicide applications, rough-cut mowing, and/or prescribed burns be conducted within the southwestern basin.
3. The 1.2 acre native mesic prairie area included in the landscape plans was not observed. The subject area immediately adjacent to the detention basin is actively mowed at a length of 3-4 inches, typical of turf grass maintenance. This area should

only be rough-cut mowed at a length of 6-8 inches at a frequency of one to two times a year, or be burned periodically to maintain the desire mesic prairie plant community.

The Improvement and landscape plans include the north side of the commercial property (Lot 73) being provided with an arrangement of berms and landscaping improvements. HR Green has included the proposed commercial property (Lot 73) berm work, restoration and landscaping improvements as an option to be considered prior to accepting the subdivision. The berm work would consist of earthwork necessary to create four berms approximately 5' in height as proposed in the plans. The restoration work would consist of placing topsoil, seed, fertilizer and erosion control blanket in the improved area. Additional landscaping improvements as included in the proposed landscape plan would also be included.

With the understanding that trees will need to be provided within the parkways prior to Village acceptance of the subdivision, HR Green has included an estimated quantity of trees following Village of Homer Glen tree spacing criteria (40' c-c) as specified in the Village's Subdivision Ordinance. The parkway areas adjacent to Outlots A, B and D contain trees, therefore, parkway trees will not be included in the punchlist for this area unless the existing tree condition dictates a replacement. HR Green observed the condition of existing trees located within the outlots along with restored Right-Of-Way parkway areas adjacent to outlots and completed homes to identify any necessary replacements.

The following table includes the recommended restoration and parkway tree improvements necessary to obtain Village acceptance of the subdivision.

Roadway / Area	Restoration (Topsoil, Seed, Fertilizer and Erosion Control Blanket)	Parkway Trees	Topsoil Removal	Clay Removal
Cecelia Court	819 SY (North side: 340' X 12.5') (South side: 250' X 12.5')	19 EA (40' spacing within 590': 15) 14307: 2 14315: 2	N/A	N/A
Hiller Drive	1,896 SY (North side: 350' X 12.5') (South side: 1,015' X 12.5')	34 EA (40' spacing within 1,365')	N/A	N/A
James Lane	2,653 SY (North and east sides: 1,105' X 12.5') (South and west sides: 805' X 12.5')	51 EA (40' spacing within 1,910': 48) 14311: 2 15647: 1 (Replacement)	N/A	N/A

Jeanne Lane	3,990 SY (West side: 1,553' X 12.5') (East side: 1,320' X 12.5')	77 EA (40' spacing within 2,873': 72) 15530: 2 (Replacements) 15621: 1 (Replacement) 15629: 1 (Replacement) 15663: 1 (Replacement)	N/A	N/A
Lift Station Access Road / 155 th Street Dedication	4,375 SY (North side: 750' X 25') (South side: 625' X 13') (Open area east of Jeanne Lane: 250' X 50')	41 EA (40' spacing within 1,625')	N/A	N/A
Main Access Road	N/A	N/A	N/A	N/A
Outlots	N/A	4 EA Outlot D Parkway: 4 (replacements)	N/A	N/A
Commercial property (Lot 73)	13,333 SY (400' X 300')	N/A	N/A	44,444 CY (400' X 300' X 10')

Lots 19, 20, 21 & 22 (Topsoil Stockpile Location)	6,667 SY (300' X 200')	N/A	29,563 CY (300' X 200' X 15' = 33,333 CY) – (Parkway restoration area at 6" deep and clay stockpile area at 4" deep = 3,770 CY)	N/A
TOTALS:	33,733 SY	226 EA	29,563 CY	44,444 CY

Notes:

1. Assume an average of 6" of topsoil placement necessary for restoration.
2. Parkway tree type to be determined by the Village of Homer Glen in accordance with Tree Preservation Ordinance 06-014.
3. Tree replacements include the removal of the existing trees that appear to be in a diseased or dying condition.
4. For finished lots with missing parkway trees, 2 trees per parkway has been figured unless the lot width dictates more trees to meet the 40' c-c criteria as specified in the Village's Subdivision Ordinance.

The following table includes the optional restoration area to be considered by the Village for acceptance of the subdivision.

Optional Area	Optional Restoration (Topsoil, Seed, Fertilizer and Erosion Control Blanket)	Berm Work (Earth Fill)	Landscaping Plantings
Commercial property (Lot 73)	4,578 SY 1,030' X 40'	3,389 CY (200' X 30', 250' X 35', 275' X 30', 250' X 30') X 3'	4 Austrian Pines; 4 Service Berry; 12 Burning Bush; 24 Seagreen Junipers; 28 Mohican Viburnum

Notes:

1. Assume 4" topsoil depth for restoration of the optional commercial property (Lot 73) area.
2. Earth fill for the berm work is assumed to be provided from on-site clay stockpile.
3. The estimated berm work volume was calculated using an average 3' height to accommodate the transition from the 0' to 5' berm height transition.

4. Parkway trees adjacent to the commercial property (Lot 73) are accounted for in the recommended parkway restoration and tree improvements table associated with Hiller Drive.
5. Provided that the optional restoration be performed, the total subdivision topsoil removal quantity would be reduced by approximately 509 CY, which is the volume of optional restoration topsoil necessary to furnish the optional commercial property (Lot 73) area. Revised estimated topsoil removal quantity: 29,563 CY – 509 CY = 29,054 CY.
6. Provided that the optional berm work be performed, the clay removal quantity would be reduced by approximately 3,389 CY, which is the estimated volume of the earth fill for the berm work. Revised estimated clay removal quantity: 44,444 CY – 3,389 CY = 41,055 CY.

Erosion Control

Existing erosion control measures that are commonly used such as perimeter erosion barrier and filter fabric for inlet and pipe protection become no longer applicable after vegetation has developed for areas that were once solely comprised of earth material such as clay or other soils and subject to erosion. In most cases, enough vegetation will develop such that the vegetation itself becomes a means of erosion control. HR Green determined that vegetation growth has become established throughout the Glenview Walk Estates subdivision, which includes the Right-Of-Way, private lots and outlots. As a result, the existing perimeter erosion barrier and filter fabric (inlet and pipe protection) measures are recommended to be removed throughout with exception of the perimeter erosion barrier adjacent to lot 23. Lot 23 has been developed with a home and restored. The topsoil stockpile exists next to Lot 23 and it is recommended that the perimeter erosion barrier remain in place from protection.

The following table includes the perimeter erosion barrier recommended for removal prior to Village acceptance of the subdivision.

Location	Perimeter Erosion Barrier Removal
Outlot A (North and east sides)	275 FT
Outlot B (East and west sides)	1,550 FT
Outlot C (West side)	750 FT
Between Lots 45 and 46	180 FT
TOTAL:	2,755 FT

During the erosion control observation, there were areas identified where erosion has occurred in the past, creating several eroded voids within the ground surface at various areas. Some of these areas may not be subject to future erosion issues due to surrounding vegetation but they are assumed as hazardous to pedestrians walking through the areas due to the differential in grades. It is recommended that these areas be corrected by means of re-grading or filling the eroded areas with earth material and restoring the surface with seed, fertilizer and erosion control blanket.

The following table includes the recommended erosion corrections to be performed prior to Village acceptance of the subdivision.

Location	Erosion Corrections
Commercial property (Lot 73) (South of clay stockpile)	444 SY (200' X 20')

Note: Erosion corrections work includes necessary earth moving operations, necessary furnishing of placement of earth material from on site and placement of vegetation seed and erosion control blanket.

Walking Path Improvements

An aggregate walking path exists on Outlots A, B, C and D as proposed per the improvement plans with a revision to the layout through outlet D. There are areas where the walking path has settled or been impacted such that corrections are recommended to avoid safety issues to the public. There are also areas where the walking path has significant weed growth coming up through the aggregate, primarily along the east side of Outlet C. HR Green recommends that more stone be added to the settled/disturbed areas and that weeds be removed throughout. It is also recommended that additional aggregate surface course be provided to coat the existing walking path after corrective work has been performed and to address any surface variations that may occur in the future.

The following table includes recommended walking path corrections to be performed prior to Village acceptance of the subdivision.

Area	Aggregate Surface Course, Type B	Weed Removal
Outlet A (Next to pond)	5 Tons (20' X 8' at 4" depth)	N/A

Outlot C (North side of pond)	10 Tons (25' X 8' at 8" depth)	N/A
Throughout (Outlots A, B, C & D)	80 Tons (25% of 3,600' X 8' at 1.5" depth)	800 SY (25% of 3,600' X 8')
TOTALS:	95 TONS	800 SY

Notes:

1. There is approximately 3,600' of walking path throughout the subdivision.
2. The walking path width varies between 5' and 8'. 8' widths are used in calculations.
3. An estimated 25% of the total walking path area has been included for weed removal and overlaying the existing aggregate at an estimated 1.5".

Miscellaneous Items to be Removed

Items such as a truck, heavy equipment and two storage trailers with tires and debris remain on the commercial property (Lot 73). These items do not serve any use on the site, are unsightly and potentially hazardous to the public. It is recommended that these items be removed from the subdivision property.

Additional Comments

During the observation of Glenview Walk Estates, HR Green noticed existing exposed and incomplete storm sewer along and within the north side of the 159th Street Right-Of-Way. The storm sewer was not included in the Glenview Walk Estates improvement plans and it is unknown if it is related to the subdivision's storm sewer system. There is existing concrete storm sewer pipe connected to several storm sewer structures. The drainage structures are exposed and are missing frames and grates/lids. HR Green observed concrete inlet structures lying around near the area that were not installed or connected to any storm sewer. The area has been exposed to erosion and it was evident that silt has entered into the unknown storm sewer system. HR Green recommends that the Village of Homer Glen further evaluate the aforementioned storm sewer system to identify any impacts to nearby Village maintained storm sewer systems.

II. DETENTION BASIN VERIFICATION

Proposed and Existing Drainage Features Summary

HR Green performed topographical survey services on the Glenview Walk Estates on June 6th, 2012. The specific information collected included topography of the subdivision's stormwater detention basins including interconnecting storm sewer pipes and structures adjacent to said detention basins in their existing conditions. The basins were surveyed along their top of bank and down to the surface water elevations. This analysis was based on the Engineering Plans dated 03/10/04 prepared by Morris Engineering, Inc. Drainage calculations were not available for our analysis. There are two stormwater basins, A and B. Reference can be made to Exhibits A1 and A2 for information about each basin. The upstream pond B is drained by a single 12" pipe that outfalls to pond A. There is no 100-year overflow weir shown on the plans for pond B and it appears that ponds emergency overflow is routed into a 48" pipe through an open grate structure #1205 with a rim elevation of 766.64. Pond A is wet pond controlled by a dual restrictor (structure #1034). The 2 year storm is controlled by a 6" orifice within the restrictor manhole wall. The engineering plans indicate a proposed 7" orifice. The 100-year storm is controlled by a 9" orifice within the wall. Below is a summary of the proposed and existing conditions of the control structures.

POND A			
	PROPOSED	EXISTING	DIFFERENCE
WEIR WALL- TOP ELEV.	None proposed	763.57	
2 YEAR RESTRICTOR INV ELEV. (diameter)	760.11 (7")	759.97 (6")	0.14' LOW Orifice 1" too small
100 YEAR RESTRICTOR INV ELEV. (diameter)	762.21 (9")	762.17 (9")	0.14' LOW
100 YEAR EMERGENCY OVERFLOW WEIR ELEV.	765.50	764.30	1.2' LOW

POND B			
	PROPOSED	EXISTING	DIFFERENCE
OUTFALL INV ELEV. (diameter)	762.00 (12")	761.61 (12")	0.39' LOW
100 YEAR EMERGENCY OVERFLOW ELEV.	767.80 (assumed to be proposed HWL)	766.64	1.16' LOW

Volume Determination Summary

Glenview Walk Estate's stormwater basins existing contour areas were imported into an Excel spreadsheet to calculate the volume of provided storage using the average end area method. The proposed storage volumes were obtained from the engineering plans.

POND A			
	PROPOSED	EXISTING	DIFFERENCE
NWL	760.50	760.40	0.10' LOW
HWL	765.42	764.30	1.12' LOW
STORAGE VOLUME (AC.FT.)	11.23	8.66	2.57 Shortage

POND B			
	PROPOSED	EXISTING	DIFFERENCE
NWL (DRY BOTTOM)	762.00	763.60	1.60' HIGH
HWL	767.80	767.70	0.10' LOW
STORAGE VOLUME (AC.FT.)	4.4	3.12	1.28 Shortage

Conclusions

Pond A

The restrictor for Pond A was constructed with a weir wall that can overtop at an elevation of 763.57 which is lower than the HWL. This will allow stormwater to be released at a rate greater than the allowable. This weir wall elevation was not shown on the proposed plans. The diameter of the 2 year restrictor orifice was constructed 1" smaller than was proposed. The 100 year emergency overflow was constructed 1.20' lower than the proposed elevation. This results in a reduced storage volume for the basin. This basin does not comply with the design plans. A detailed review of the original drainage calculations or a hydraulic analysis would be required to determine the impact of these deviations.

Pond B

The outfall for Pond B was constructed 0.39' lower than required. This did not however impact the storage volume since our survey indicated that there is a ridge constructed right before the outfall that holds water back at an elevation of 763.60. This ridge raises the NWL of the pond by 1.6' and reduces the storage volume. The storage in this basin is further reduced by the elevation of the overflow structure #1205. The open grate is lower than the proposed HWL. We have assumed that the grate would restrict flow enough to allow the HWL to reach 767.7 (1'). The existing volume was calculated based on this elevation. This basin does not comply with the design plans. A detailed review of the

original drainage calculations or a hydraulic analysis would be required to determine the impact of these deviations.

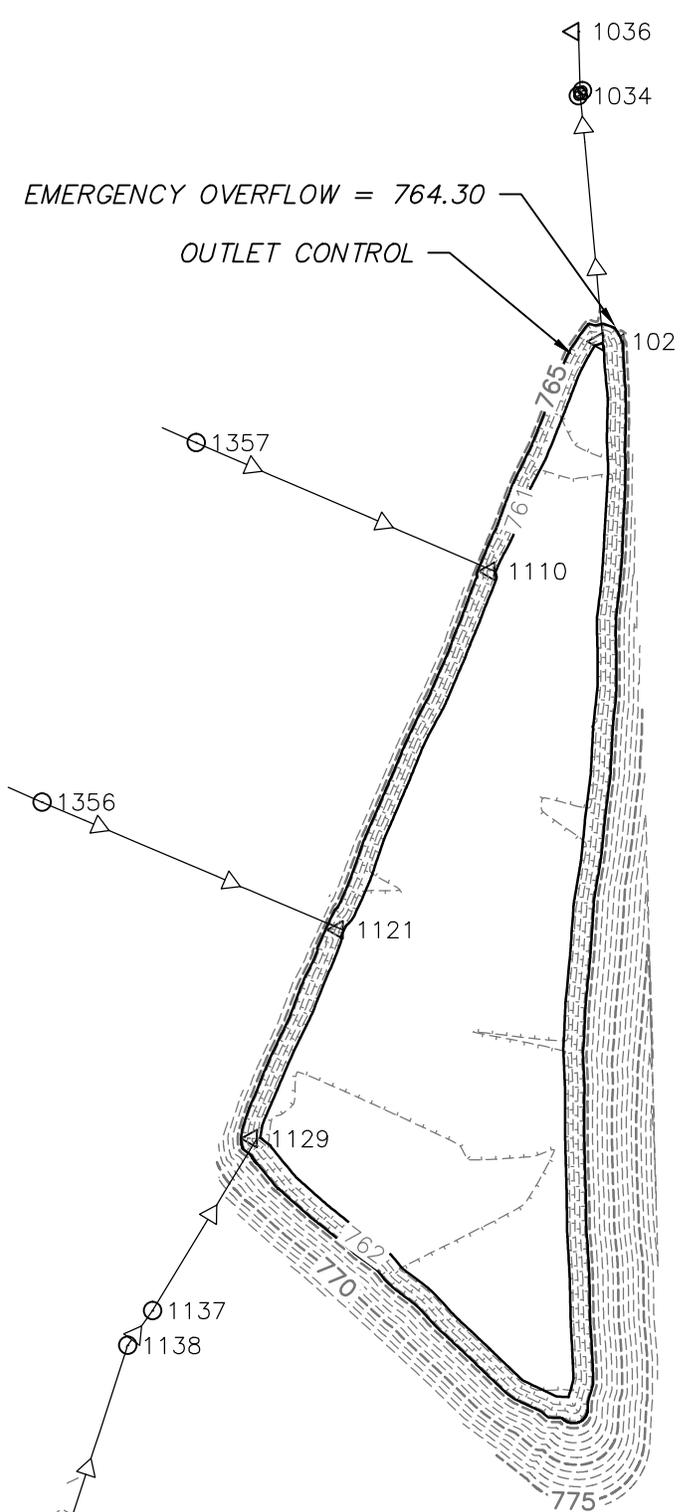
The combined shortage of storage volume for both ponds is 3.85 ac.ft which is a 25% lower than the proposed volume. If corrective measures are deemed necessary, adjustments to the overflow weir or outfall pipes can be evaluated. Likewise, a detailed analysis of the original design calculations and existing site conditions would be necessary. HR Green can provide this service at an additional cost.

III. PARCEL IDENTIFICATION

HR Green has researched the specific ownership of both private and public improvement property in the Glenview Walk Estates subdivision. The parcel data was obtained by utilizing 2011 tax records through the Will County Treasurer's Office. There are 73 lots within the subdivision numbered 1 through 73 and four outlots named Outlot A, B, C and D. Please refer to Exhibit B for parcel identification.

IV. ENGINEER'S OPINION OF PROBABLE COST

The punch list items included in this report have been identified as construction action items with assigned quantities of work and associated unit pricing necessary to correct the deficiencies and complete the outstanding improvements necessary for Village acceptance of the subdivision. HR Green utilized 2012 unit prices for cost estimation purposes. Please refer to Exhibit C for the Engineer's Opinion of Probable Cost.



- POND A
- 1036 FLARED END SECTION
ENGINEERING PLAN ID=FES-9
INV=759.57 S 24" RCP
 - 1034 STORM MANHOLE
ENGINEERING PLAN ID=MH-27
RIM=764.67
INV=759.87 N/S 24" RCP
TOP OF WALL=763.57
ORFFICE_UPPER=762.17 9"
ORFFICE_LOWER=759.97 6"
 - 1102 FLARED END SECTION
ENGINEERING PLAN ID=FES-8
INV=760.32 N 24" RCP
 - 1110 FLARED END SECTION
ENGINEERING PLAN ID=FES-11
INV=760.41 NW 12" RCP
 - 1357 STORM CATCH BASIN
ENGINEERING PLAN ID=CB-26
F/L=767.52
INV=762.47 SE 12" CPP
 - 1356 STORM MANHOLE
ENGINEERING PLAN ID=CB-15
F/L=772.07
INV=761.07 E 30" CPP
 - 1121 FLARED END SECTION
ENGINEERING PLAN ID=FES-7
INV=760.34 NW 30" CCP
 - 1129 FLARED END SECTION
ENGINEERING PLAN ID=FES-6
INV=760.97 SW 48" RCP
 - 1137 STORM CATCH BASIN
ENGINEERING PLAN ID=CB-28
F/L=773.34
INV=760.99 NE/SW 48" RCP

EXISTING POND VOLUME

Elevation (ft)	Area (sq. ft.)	Area (acres)	Volume (ac-ft)	Cumulative Volume
760.4	85331	1.96	0.00	0.000
762	94667	2.17	3.30	3.304
763	100520	2.31	2.24	5.544
764	106449	2.44	2.38	7.920
764.3	108243	2.48	0.74	8.659

EXISTING POND VOLUME = 8.66 AC. FT.
 PROPOSED POND VOLUME = 11.23 AC. FT.

REVISIONS		
#	DATE	BY
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Illinois Professional Design Firm # 184-001322



323 Alana Drive,
 New Lenox, Illinois 60451
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 www.secgroupinc.com

GLENVIEW WALK ESTATES

POND A

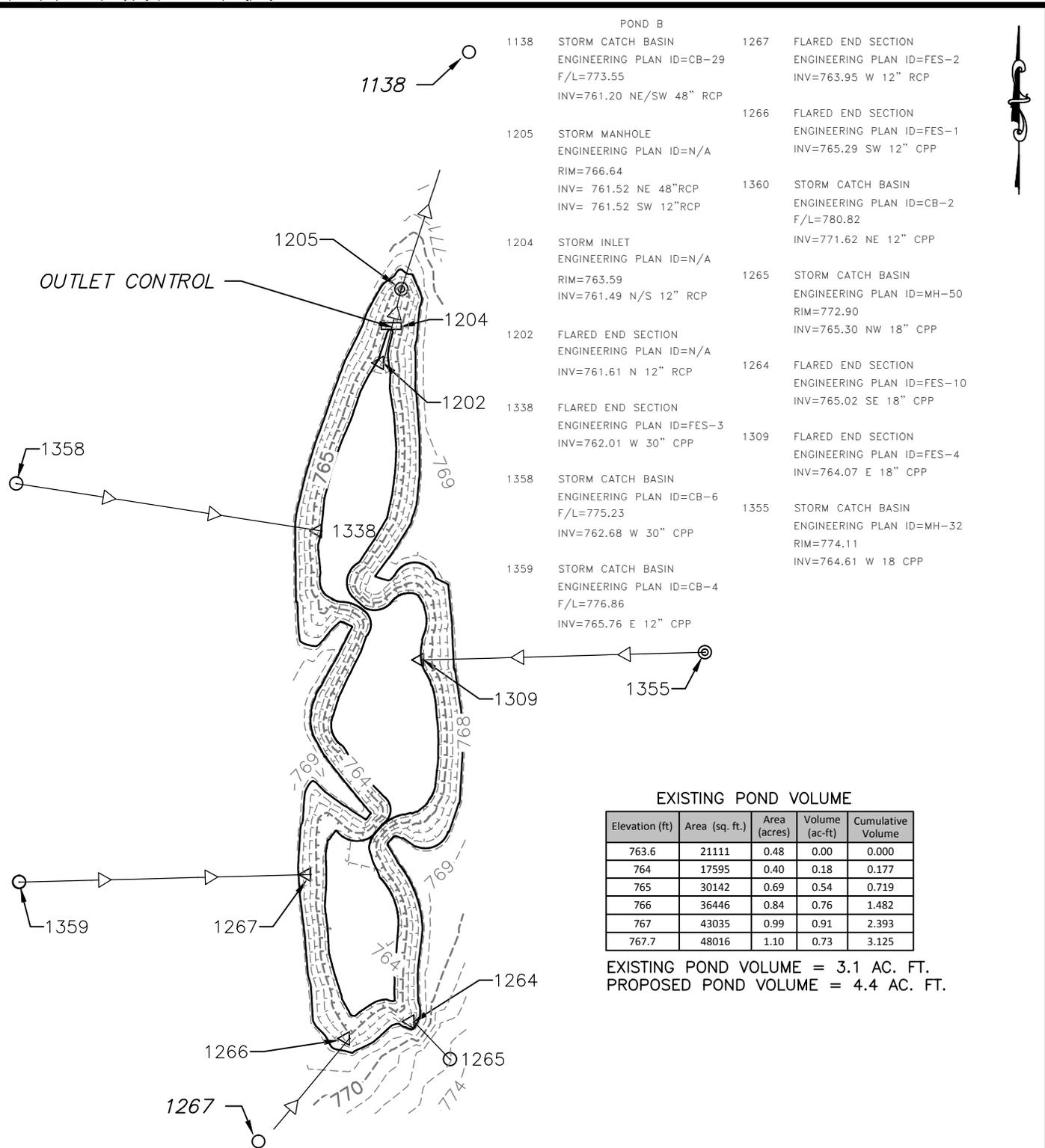
DATE:
6/20/2012

HORIZ. SCALE:
NOT TO SCALE

DWN. BY: DSN. BY: CHK. BY:
BDE N/A MD

PROJECT NO.
86120056

SHEET NO.
1 OF 1



EXISTING POND VOLUME

Elevation (ft)	Area (sq. ft.)	Area (acres)	Volume (ac-ft)	Cumulative Volume
763.6	21111	0.48	0.00	0.000
764	17595	0.40	0.18	0.177
765	30142	0.69	0.54	0.719
766	36446	0.84	0.76	1.482
767	43035	0.99	0.91	2.393
767.7	48016	1.10	0.73	3.125

EXISTING POND VOLUME = 3.1 AC. FT.
 PROPOSED POND VOLUME = 4.4 AC. FT.

#	DATE:	BY:
1.		
2.		
3.		
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7.		
8.		
9.		
10.		

Illinois Professional Design Firm # 184-001322



323 Alana Drive,
 New Lenox, Illinois 60451
 t. 815.462.9324 f. 815.462.9328
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GLENVIEW WALK ESTATES

POND B

DATE: 6/20/2012	
HORIZ. SCALE: NOT TO SCALE	
DWN. BY: BDE	DSN. BY: N/A
CHK. BY: MD	
PROJECT NO. 86120056	
SHEET NO.	



EXHIBIT B Glenview Walk Estates Subdivision Parcel Identification

Lot Number	Permanent Index Number (PIN)	Property Owner	Property Address	Property Street	Property City	Property State	Property Zip	Owner Address	Owner Street	Owner City	Owner State	Owner Zip
1	16-05-15-302-017-0000	OLD NATIONAL BANK	15712	S JEANNE LN	HOMER GLEN	IL	60491	625	PLAINFIELD RD STE 424	WILLOWBROOK	IL	60527
2	16-05-15-302-016-0000	NORTH STAR TRUST COMPANY TR HTNL 2510	15706	S JEANNE LN	HOMER GLEN	IL	60491	500	W MADISON ST STE 3150	CHICAGO	IL	60661
3	16-05-15-302-015-0000	BOREJ ELIZABETH KAZIMIERZ	15700	JEANNE LN	HOMER GLEN	IL	60491	15700	JEANNE LN	HOMER GLEN	IL	60491
4	16-05-15-302-013-0000	BSLB LLC						PO BOX 16		WILLOW SPRINGS	IL	60480
5	16-05-15-302-012-0000	GRONEWOLD THOMAS R MARIJO E	15658	JEANNE LN	HOMER GLEN	IL	60491	15658	JEANNE LN	HOMER GLEN	IL	60491
6	16-05-15-302-011-0000	OLD NATIONAL BANK	15652	S JEANNE LN	HOMER GLEN	IL	60491	625	PLAINFIELD RD STE 424	WILLOWBROOK	IL	60527
7	16-05-15-302-010-0000	MARQUETTE BANK ATTN TIMOTHY FINLON VP	15646	S JEANNE LN	HOMER GLEN	IL	60491	10000	W 151ST ST	ORLAND PARK	IL	60462
8	16-05-15-302-009-0000	BSLB LLC						PO BOX 16		WILLOW SPRINGS	IL	60480
9	16-05-15-302-008-0000	KING BRIAN T PATRICIA H	15634	JEANNE LN	HOMER GLEN	IL	60491	15634	JEANNE LN	HOMER GLEN	IL	60491
10	16-05-15-302-007-0000	BANGERT JAMES JULIE	15628	S JEANNE LN	HOMER GLEN	IL	60491	16120	GREEN LAIR DR	HOMER GLEN	IL	60491
11	16-05-15-302-006-0000	KRZYZANOWSKI WIESLAW DOREEN	15622	S JEANNE LN	HOMER GLEN	IL	60491	15622	S JEANNE LN	HOMER GLEN	IL	60491
12	16-05-15-302-005-0000	BSLB LLC						PO BOX 16		WILLOW SPRINGS	IL	60480
13	16-05-15-302-004-0000	AGUIRRE ANTHONY CLAUDIA	15610	S JEANNE LN	HOMER GLEN	IL	60491	15610	S JEANNE LN	HOMER GLEN	IL	60491
14	16-05-15-302-003-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
15	16-05-15-302-002-0000	REVELL PHILLIP A FMLY TR	14301	W JAMES LN	HOMER GLEN	IL	60491	14301	W JAMES LN	HOMER GLEN	IL	60491
16	16-05-15-302-001-0000	CAPPELLO DANIEL GINA	14311	W JAMES LN	HOMER GLEN	IL	60491	14311	W JAMES LN	HOMER GLEN	IL	60491
17	16-05-15-301-014-0000	WEBER JAMES M	14312	JAMES LN	HOMER GLEN	IL	60491	14312	JAMES LN	HOMER GLEN	IL	60491
18	16-05-15-301-015-0000	WOJCIAK JOSEPH TR 3014	14306	W JAMES LN	HOMER GLEN	IL	60491	16416	S KENSINGTON DR	HOMER GLEN	IL	60491
19	16-05-15-301-016-0000	HILLER DEVELOPMENT TR 7-663	15706	S JEANNE LN	HOMER GLEN	IL	60491	11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
20	16-05-15-301-017-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
21	16-05-15-301-013-0000	NEWBRIDGE CONSTRUCTION INC % JOHN GRIFFIN						8848	W 98TH PL	PALOS HILLS	IL	60465
22	16-05-15-301-012-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
23	16-05-15-301-011-0000	CARMELLO ANTHONY J KIMBERLY A	14307	W CECELIA CT	HOMER GLEN	IL	60491	14307	W CECELIA CT	HOMER GLEN	IL	60491
24	16-05-15-301-010-0000	DAVIS VERA R GREEN RICHARD B	14311	CECELIA CT	HOMER GLEN	IL	60491	14311	CECELIA CT	HOMER GLEN	IL	60491
25	16-05-15-301-009-0000	REPOSH LOUIS G NATALIE	14315	W CECELIA CT	HOMER GLEN	IL	60491	14315	W CECELIA CT	HOMER GLEN	IL	60491
26	16-05-15-301-001-0000	CHICAGO TITLE LAND TR CO TR 008002347909	14314	W CECELIA CT	HOMER GLEN	IL	60491	171	N CLARK ST LL	CHICAGO	IL	60601
27	16-05-15-301-002-0000	NEWBRIDGE CONSTRUCTION INC % JOHN GRIFFIN						8848	W 98TH PL	PALOS HILLS	IL	60465
28	16-05-15-301-003-0000	BSLB LLC	14308	W CECELIA CT	HOMER GLEN	IL	60491	PO BOX 16		WILLOW SPRINGS	IL	60480
29	16-05-15-301-004-0000	WOJCIAK JOSEPH TR 3014	14304	W CECELIA CT	HOMER GLEN	IL	60491	16416	S KENSINGTON DR	HOMER GLEN	IL	60491
30	16-05-15-301-005-0000	WOJCIAK JOSEPH TR 3014	14300	W CECELIA CT	HOMER GLEN	IL	60491	16416	S KENSINGTON DR	HOMER GLEN	IL	60491
31	16-05-15-301-008-0000	PATEL SAGAR JAYANTIBHAI	15530	JEANNE LN	HOMER GLEN	IL	60491	15530	JEANNE LN	HOMER GLEN	IL	60491
32	16-05-15-301-007-0000	WOJCIAK JOSEPH TR 3014	15520	S JEANNE LN	HOMER GLEN	IL	60491	16416	S KENSINGTON DR	HOMER GLEN	IL	60491
33	16-05-15-301-006-0000	NORTH STAR TRUST COMPANY TR HTNL 2510	15510	S JEANNE LN	HOMER GLEN	IL	60491	500	W MADISON ST STE 3150	CHICAGO	IL	60661
34	16-05-15-304-001-0000	O'BRIEN ANDREW LISA	15509	JEANNE LN	HOMER GLEN	IL	60491	15509	JEANNE LN	HOMER GLEN	IL	60491
35	16-05-15-304-002-0000	MCLAUGHLIN JOHN MICHAEL TRUST	15515	S JEANNE LN	HOMER GLEN	IL	60491	242	S PECK AVE	LA GRANGE	IL	60525
36	16-05-15-304-003-0000	TUMINELLO FRANK T DAWN M	15521	JEANNE LN	HOMER GLEN	IL	60491	15521	JEANNE LN	HOMER GLEN	IL	60491
37	16-05-15-304-004-0000	BSLB LLC	15527	S JEANNE LN	HOMER GLEN	IL	60491	PO BOX 16		WILLOW SPRINGS	IL	60480
38	16-05-15-304-005-0000	MARQUETTE BANK ATTN TIMOTHY FINLON VP	15533	S JEANNE LN	HOMER GLEN	IL	60491	10000	W 151ST ST	ORLAND PARK	IL	60462
39	16-05-15-304-006-0000	KRZYZANOWSKI WIESLAW	15539	JEANNE LN	HOMER GLEN	IL	60491	15539	JEANNE LN	HOMER GLEN	IL	60491
40	16-05-15-304-007-0000	SALAH KHALED RUSMEA R	15545	JEANNE LN	HOMER GLEN	IL	60491	15545	JEANNE LN	HOMER GLEN	IL	60491
41	16-05-15-304-008-0000	KRZYZANOWSKI DOREEN	15551	JEANNE LN	HOMER GLEN	IL	60491	15551	JEANNE LN	HOMER GLEN	IL	60491
42	16-05-15-304-009-0000	WOJCIAK JOSEPH TR 3014						16416	S KENSINGTON DR	HOMER GLEN	IL	60491
43	16-05-15-303-001-0000	KUNIK DAVID B JULIE M	15601	JEANNE LN	HOMER GLEN	IL	60491	15601	JEANNE LN	HOMER GLEN	IL	60491
44	16-05-15-303-002-0000	WOJCIAK JOSEPH TR 3014	15607	S JEANNE LN	HOMER GLEN	IL	60491	16416	S KENSINGTON DR	HOMER GLEN	IL	60491
45	16-05-15-303-003-0000	MARQUETTE BANK ATTN TIMOTHY FINLON VP	15613	S JEANNE LN	HOMER GLEN	IL	60491	10000	W 151ST ST	ORLAND PARK	IL	60462
46	16-05-15-303-004-0000	ROSSI JOSEPH P EILEEN	15621	S JEANNE LN	HOMER GLEN	IL	60491	15621	S JEANNE LN	HOMER GLEN	IL	60491
47	16-05-15-303-005-0000	MELERSKI LUKASZ	15629	S JEANNE LN	HOMER GLEN	IL	60491	15629	S JEANNE LN	HOMER GLEN	IL	60491
48	16-05-15-303-006-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
49	16-05-15-303-007-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
50	16-05-15-303-008-0000	BSLB LLC	15649	S JEANNE LN	HOMER GLEN	IL	60491	PO BOX 16		WILLOW SPRINGS	IL	60480
51	16-05-15-303-009-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
52	16-05-15-303-010-0000	NWOKENKO JUDE MONSURAT A	15663	S JEANNE LN	HOMER GLEN	IL	60491	15663	S JEANNE LN	HOMER GLEN	IL	60491
53	16-05-15-303-011-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
54	16-05-15-303-012-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
55	16-05-15-303-022-0000	TRIPLITT ROY CONCEPCION B	15664	JAMES LN	HOMER GLEN	IL	60491	15664	JAMES LN	HOMER GLEN	IL	60491
56	16-05-15-303-021-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
57	16-05-15-303-020-0000	SALGADO JUAN MARIA	15652	JAMES LN	HOMER GLEN	IL	60491	15652	JAMES LN	HOMER GLEN	IL	60491
58	16-05-15-303-019-0000	SHAH SHIRISH GITA	15646	JAMES LN	HOMER GLEN	IL	60491	15646	JAMES LN	HOMER GLEN	IL	60491
59	16-05-15-303-018-0000	BSLB LLC						PO BOX 16		WILLOW SPRINGS	IL	60480
60	16-05-15-303-017-0000	KRZYZANOWSKI DENAE	15634	JAMES LN	HOMER GLEN	IL	60491	15634	JAMES LN	HOMER GLEN	IL	60491
61	16-05-15-303-016-0000	BSLB LLC	15628	S JEANNE LN	HOMER GLEN	IL	60491	PO BOX 16		WILLOW SPRINGS	IL	60480
62	16-05-15-303-015-0000	BSLB LLC	15622	S JEANNE LN	HOMER GLEN	IL	60491	PO BOX 16		WILLOW SPRINGS	IL	60480
63	16-05-15-303-014-0000	BOETTINGER WILLIAM P JANE F	15614	S JAMES LN	HOMER GLEN	IL	60491	10545	VICKY LN	PALOS HILLS	IL	60465
64	16-05-15-304-012-0000	CURLEY JOHN P	15617	S JAMES LN	HOMER GLEN	IL	60491	8832	W 98TH PL	PALOS HILLS	IL	60465
65	16-05-15-304-013-0000	BSLB LLC	15623	S JAMES LN	HOMER GLEN	IL	60491	PO BOX 16		WILLOW SPRINGS	IL	60480
66	16-05-15-304-014-0000	ZIELINSKI MICHAEL E MARY BETH	15629	S JAMES LN	HOMER GLEN	IL	60491	15629	S JAMES LN	HOMER GLEN	IL	60491
67	16-05-15-304-015-0000	BSLB LLC						PO BOX 16		WILLOW SPRINGS	IL	60480
68	16-05-15-304-016-0000	BSLB LLC	15641	S JAMES LN	HOMER GLEN	IL	60491	PO BOX 16		WILLOW SPRINGS	IL	60480
69	16-05-15-304-017-0000	PASTOREK GREGORY A JILL M	15647	S JAMES LN	HOMER GLEN	IL	60491	15647	S JAMES LN	HOMER GLEN	IL	60491
70	16-05-15-304-018-0000	MARQUETTE BANK ATTN TIMOTHY FINLON VP	15653	S JAMES LN	HOMER GLEN	IL	60491	10000	W 151ST ST	ORLAND PARK	IL	60462
71	16-05-15-304-019-0000	OWENS DONALD J SUSAN K	15659	JAMES LN	HOMER GLEN	IL	60491	15659	JAMES LN	HOMER GLEN	IL	60491
72	16-05-15-304-020-0000	SCHELDBERG BARBARA						429	TRACEY CT	WESTMONT	IL	60559
73	16-05-15-305-001-0000	SILVER CROSS HOSP & MED CENTER TR HTNL 2518						1900	SILVER CROSS BLVD	NEW LENOX	IL	60451
OUTLOT A	16-05-15-302-014-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
OUTLOT B	16-05-15-303-013-0000	BSLB LLC TR 7-663						PO BOX 16		WILLOW SPRINGS	IL	60480
OUTLOT C	16-05-15-304-010-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463
OUTLOT D	16-05-15-304-011-0000	HILLER DEVELOPMENT TR 7-663						11743	SOUTHWEST HWY	PALOS HEIGHTS	IL	60463

- Notes:
1. Outlots A, B, C and D serve basins and common areas.
 2. Subdivision plat recorded on 05/31/2005.
 3. Information based upon 2011 property tax records.
 4. Will County's current available documentation does not reflect recent property activity since 2011. Current information will be available as provided by Will County.



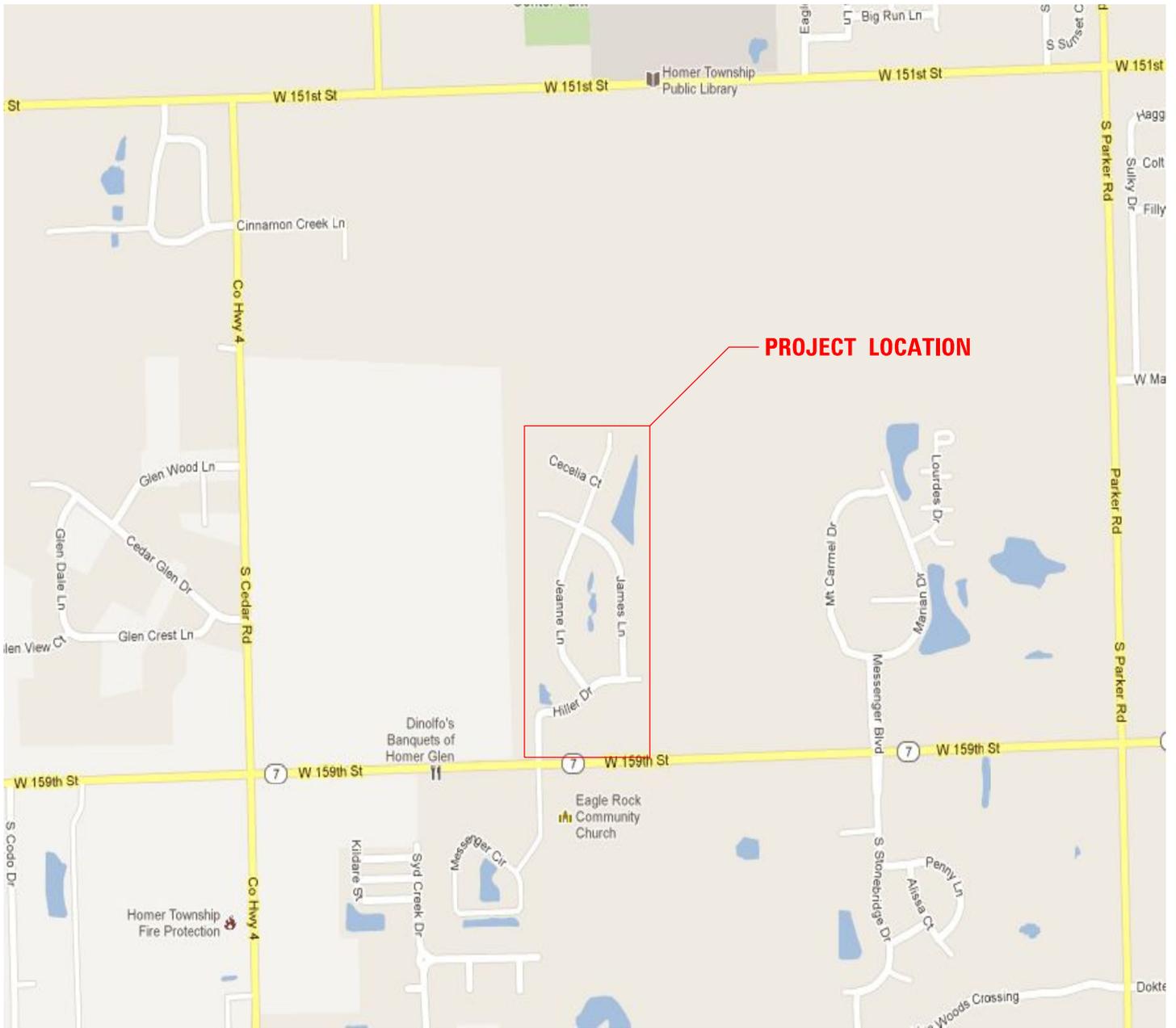
EXHIBIT C
Glenview Walk Estates - Engineer's Opinion of Probable Cost (July, 2012)

ROADWAY NAME		CECELIA COURT	HILLER DRIVE	JAMES LANE	JEANNE LANE	LIFT STATION ACCESS ROAD	MAIN ACCESS ROAD	VARIOUS AREAS (PUBLIC AND PRIVATE LOTS)	TOTAL	UNIT COST	ESTIMATED COST
ROADWAY LIMITS		JEANNE LANE TO END	MAIN ACCESS ROAD TO END	HILLER DRIVE TO END	HILLER DRIVE TO END	ERIN HILLS UNIT-4B LIMIT TO ERIN DRIVE	ERIN HILLS UNIT-4B LIMIT TO ERIN DRIVE				
LENGTH (FOOT)		355	1,040	1,780	2,240	730	375		6,520		
WIDTH (FOOT)		28	28	28	28	12	VARIES				
EXTRA AREA (SQ YD)		875							875		
AREA (SQ YD)		1,980	3,236	5,538	6,969	973	2,028		20,724		
BITUMINOUS MATERIALS (PRIME COAT)	GAL	198	324	554	697	97	203		2,073	\$2.00	\$4,146.00
AGGREGATE (PRIME COAT)	TON	4	7	11	14	2	4		42	\$20.00	\$840.00
HOT-MIX ASPHALT SURFACE COURSE, MIX 'C', N50	TON	222	362	620	781	82	227		2,294	\$70.00	\$160,580.00
HMA BINDER COURSE REMOVAL AND REPLACEMENT (2.5")	SQ YD		93	96	389	143			721	\$12.00	\$8,652.00
AGGREGATE BASE COURSE REMOVAL AND REPLACEMENT, TYPE B (12")	SQ YD		93	96	389	143			721	\$18.00	\$12,978.00
HMA SURFACE REMOVAL - BUTT JOINT	SQ YD						89		89	\$15.00	\$1,335.00
HMA SURFACE REMOVAL, VARIABLE DEPTH (0" TO 1.75")	SQ YD	39	412	498	451		86		1,486	\$2.25	\$3,343.50
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FT	60	30	60	75		70		295	\$30.00	\$8,850.00
PORTLAND CEMENT CONCRETE SIDEWALK (5")	SQ FT	2,950	7,525	9,750	14,365				34,590	\$6.00	\$207,540.00
SIDEWALK REMOVAL AND REPLACEMENT (5")	SQ FT		25	50	25				100	\$7.00	\$700.00
DETECTABLE WARNINGS	SQ FT	8	88	80	56				232	\$30.00	\$6,960.00
STREET NAME SIGNS	EACH	1	2		3		1		7	\$225.00	\$1,575.00
R1-1 STOP SIGNS (30" X 30")	EACH	1	1	3	1				6	\$250.00	\$1,500.00
R2-1 SPEED LIMIT 25 (24" X 30")	EACH			3	3				6	\$250.00	\$1,500.00
W11-2 PEDESTRIAN CROSSING IMAGE (30" X 30")	EACH			2					2	\$250.00	\$500.00
SIGN POSTS	EACH	2	1	9	4				16	\$125.00	\$2,000.00
PAVEMENT MARKINGS - LINE 6"	FT			60					60	\$0.75	\$45.00
PAVEMENT MARKINGS - LINE 24"	FT	15	15	45	15				90	\$3.00	\$270.00
CLEANING INLETS	EACH							14	14	\$100.00	\$1,400.00
CLEANING CATCH BASINS	EACH							30	30	\$225.00	\$6,750.00
CLEANING MANHOLES	EACH							12	12	\$185.00	\$2,220.00
CLEANING END SECTIONS	EACH							12	12	\$100.00	\$1,200.00
CLEANING SANITARY MANHOLE	EACH							1	1	\$300.00	\$300.00
CLEANING OUTFALL STRUCTURE	EACH							1	1	\$150.00	\$150.00
CONCRETE BENCH FOR MANHOLE	EACH							11	11	\$350.00	\$3,850.00
FRAMES TO BE ADJUSTED	EACH							15	15	\$250.00	\$3,750.00
STEP INSTALLATION FOR STORM SEWER STRUCTURE	EACH							1	1	\$150.00	\$150.00
GRATING FOR CONCRETE FLARED END SECTION, 30"	EACH							1	1	\$550.00	\$550.00
TYPE 11 GRATE REPLACEMENT	EACH							1	1	\$200.00	\$200.00
CLOSED LID REPLACEMENT	EACH							1	1	\$125.00	\$125.00
VALVE BOX REPLACEMENT	EACH							3	3	\$200.00	\$600.00
VALVE BOX ADJUSTMENT	EACH							12	12	\$150.00	\$1,800.00
WATER SERVICE BUFFALO BOX REPLACEMENT	EACH							26	26	\$325.00	\$8,450.00
WATER SERVICE BUFFALO BOX ADJUSTMENT	EACH							9	9	\$125.00	\$1,125.00
TOPSOIL PLACEMENT	SQ YD	819	1,896	2,653	3,990	4,375		20,000	33,733	\$6.00	\$202,398.00
SEEDING, CLASS 1A	ACRE	0.17	0.39	0.55	0.82	0.90		4.13	6.96	\$3,000.00	\$20,880.00
FERTILIZER	POUND	46	105	149	221	243		1,115	1,879	\$5.00	\$9,395.00
EROSION CONTROL BLANKET	SQ YD	819	1,896	2,653	3,990	4,375		20,000	33,733	\$2.50	\$84,332.50
PARKWAY TREE	EACH	19	34	51	77	41		4	226	\$380.00	\$85,880.00
EROSION CORRECTIONS	SQ YD							444	444	\$6.50	\$2,886.00
PERIMETER EROSION BARRIER REMOVAL	FT							2,755	2,755	\$1.00	\$2,755.00
REMOVAL OF MISCELLANEOUS ITEMS	L SUM							1	1	\$7,500.00	\$7,500.00
AGGREGATE SURFACE COURSE, TYPE B (WALKING PATH)	TON							95	95	\$25.00	\$2,375.00
WEED REMOVAL (WALKING PATH)	SQ YD							800	800	\$1.00	\$800.00
TOPSOIL REMOVAL	CU YD							29,563	29,563	\$11.00	\$325,193.00
CLAY REMOVAL	CU YD							44,444	44,444	\$11.00	\$488,884.00
EARTHWORK (OPTIONAL RESTORATION)	CU YD							3,389	3,389	\$20.00	\$67,780.00
OPTIONAL RESTORATION	SQ YD							4,578	4,578	\$8.50	\$38,913.00
LANDSCAPING PLANTINGS (OPTIONAL RESTORATION)	L SUM							1	1	\$9,500.00	\$9,500.00

Notes:

1. Bituminous Materials (Prime Coast) = 0.1 Gal/SY.
2. Aggregate (Prime Coast) = 0.002 Ton/SY.
3. Filter fabric removal assumed to be included in cleaning of drainage structures.
4. Fertilizer includes Nitrogen, Phosphorous and Potassium nutrient types at 90lb/acre per nutrient type.
5. Price for Step Installation for Storm Sewer Structure is per structure, not per step.
6. PCC Sidewalk (5") includes 5" of aggregate base course. Any excavation for the sidewalk is incidental to the pay item.
7. Topsoil Placement includes weed removal, incidental excavation, on-site pulverizing and placement of topsoil (6" average depth) for restoration areas.
8. Topsoil Removal quantity is the estimated remaining quantity of topsoil upon completing the Topsoil Placement work. The balance of topsoil removal upon completing the Optional Restoration work is estimated to be 29,054 CY. Associated revised cost for Topsoil Removal = 29,054 CY X \$11/CY = \$319,594.00 in lieu of \$325,193.00 (per 29,563 CY).
9. The balance of Clay Removal upon completing the Optional Restoration work is estimated to be 41,055 CY. Associated revised cost for Clay Removal = 41,055 CY X \$11/CY = \$451,605.00 in lieu of \$488,884.00 (per 44,444 CY).
10. The Village may be able to coordinate with area contractors for the removal and disposal of the excess stockpile materials at significantly lower costs, as the materials may benefit other projects.
11. Optional Restoration unit price includes weed removal, on-site pulverizing and placement of topsoil (4"), seeding, fertilizer and erosion control blanket.
12. 2012 unit prices are utilized for the Engineer's Opinion of Probable Cost.

SUB TOTAL:	\$1,805,406.00
CONTINGENCY (5%):	\$90,270.30
PREPARATION OF CONTRACT PROPOSALS FOR BIDDING, SUBSEQUENT CONTRACT AWARD AND CONSTRUCTION OBSERVATION (4%):	\$75,827.05
TOTAL:	\$1,971,503.35



PROJECT LOCATION

REVISIONS		
#	DATE:	BY:
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		



HRGreen.com
 Illinois Professional Design Firm
 # 184-001322

**VILLAGE OF HOMER GLEN
 GLENVIEW WALK
 LOCATION MAP**



SHEET ORIENTATION

DATE: 7/19/2012		
HORIZ. SCALE: N.T.S.		
DWN. BY: RCB	DSN. BY: MJA	CHK. BY: MJA
PROJECT NO. 86120056		
SHEET NO.		

Exhibit D