



## WILDWOOD

### PRIMER – Version #2

Prepared by the Department of Planning  
for the  
PLANNING AND ZONING COMMISSION  
January 19, 2016 Executive Meeting  
“Planning Tomorrow Today”

#### Nature of Request >>>

**P.Z. 1 and 1a-99 W.J. Byrne Builders, Inc., 3112 Shady Glen Estates Drive, Wildwood, Missouri 63038** - A request to amend existing Planned Residential Development Overlay District Ordinance #1189 to accommodate changes associated with a redesign of this residential subdivision that was originally approved for twenty-three (23) total units, on individual lots, to be located on a 18.33 acre tract of land, which is located on the north side of Strecker Road, east of Englebrook Drive (Locator Numbers 22U240024, 22U330031, and 22U330062 /Street Addresses 177 Strecker Road, 165 Strecker Road, and 173 Strecker Road). The modifications reflect changes to the site due to environmental considerations relating to contaminants left in place and an associated restrictive covenant approved and signed between the property owner and the United States Environmental Protection Agency (EPA), which has necessitated changes to its previously approved design. **(Ward Two)**

#### Introduction >>>

The City of Wildwood has been considering a proposal for the development of an 18.3 acre site located on the north side of Strecker Road, east of Englebrook Drive, since 1999. The proposal for this property began as a residential development of twenty-three (23), single family dwellings on individual lots. After the initial public hearing on this matter in 1999, it became apparent that, with the property's proximity to the Ellisville-Bliss Superfund Site and the potential questions about the successfulness of the clean-ups over time, greater information was needed, especially a better profile of its environmental conditions.

This gathering of information would be in the form, at first, of a Phase II Environmental Assessment. This assessment required a thorough analysis of the site, with substantial fieldwork. The first of these assessments was completed by the developer and determined flawed to the point that it was not acceptable for use, which led the City to conduct a second Phase II Environmental Assessment and others thereafter. This action led to the detailing of other potential problem areas on the property and the City obtaining commitments from the federal and State governments to address them. These commitments led to further studies, discussions, partial cleanup, and the creation of an environmental covenant between the federal government and the landowner, which requires a specific area of the property not be used for occupied residential purposes and also requires that soils within the same specified area not be excavated or otherwise disturbed.

As noted, the process for these environmental assessments began in 1999 and continued through 2014, when the federal government completed the clean-up of an identified contamination zone and the establishment of the environmental covenant. With these actions relative to the subject property, the

developer submitted an Amended Site Development Plan for the City's consideration and action. This amended plan was reviewed by the Department of Planning, the Department of Public Works, and the City Administrator and determined to have enough changes associated with it from the original proposal submitted during the 1999 public hearing process that it would require a new public hearing upon it. This process is described in the City's Zoning Ordinance and referenced below:

#### **Chapter 415.510 - Planned Residential Development Overlay District, Section 415.510 (G.)**

2. To amend the site development plans:

*c. If the Department of Planning determines that the proposed amendment to the site development plan is not consistent in purpose and content with the nature of the proposal as originally advertised for public hearing or with the preliminary development plan approved by the City Council, the Department shall so report to the applicant and the Planning and Zoning Commission. The Planning and Zoning Commission shall then review the proposed site development plan amendment and make a final determination. The Planning and Zoning Commission may, if deemed necessary, forward a resolution of intent to the City Council for the purpose of a new public hearing on the matter in accord with proceedings specified in Section [415.560](#) "Procedure for Amending the Zoning Ordinance".*

#### **Public Hearing – September 21, 2015 >>>**

With that determination made, a public hearing was held on this matter on September 21, 2015 by the Planning and Zoning Commission. The public hearing was attended by the petitioner, petitioner's attorney, and many surrounding property owners and interested parties. The discussion held during this public hearing is provided in the attached and approved minutes of the Planning and Zoning Commission. It is important to note, as part of this hearing, the petitioner's attorney attributed several statements to the City's Special Counsel on this matter regarding next steps in the process, for which the Planning and Zoning Commission requested verification. The comments made by the petitioner's attorney regarding this site related to the following matters:

1. The condition of the property and its suitability for residential use.
2. The U.S. Environmental Protection Agency's position on the use of the site.
3. The Missouri Department of Natural Resources position on the use of the site.
4. The next steps to allow this site to be developed with homesites.

This verification sought by the Planning and Zoning Commission would be from the City's Special Counsel, who is Bruce Morrison. The Planning and Zoning Commission sought to have clarification provided on this matter, as well as the City Council's direction on the same.

#### **Site Development Plan Review >>>**

The matter prompting the aforementioned hearing remains unchanged, since September 21, 2015. Again, the submittal of the amended plan to the City for this project generated a list of comments that were prepared by the Departments of Planning and Public Works in this regard. These comments are identified below:

1. Please provide comments and/or approvals from the Metropolitan St. Louis Sewer District regarding the revised design of the stormwater improvements and sanitary sewers for this project.
2. Please provide any comments or recommendations from the Metro West Fire Protection District regarding the design of improvements for its planned service to the site.
3. Please provide final letters from the United States Environmental Protection Agency and the Missouri Department of Natural Resources regarding the condition of the site for its proposed future

use for twenty (20) homesites. These letters should reflect the latest data and be dated relative to this year – 2015.

4. Please provide the signed and recorded document for the City's records that is associated with the environmental covenant that now exists on this site.
5. Please update any changes to the disturbance limits, based upon the previous Natural Resource Protection Standards Analysis, and tree preservation protection limits and amounts. Any other components of the plan sheets referencing this information may also need to be updated, if applicable. Please have the Soil Scientist that performed the Natural Resource Protection Analysis sign and seal the drawing.
6. Please note the Geotechnical Engineer that prepared the report on this property will have to sign and seal the plan's title page as well, along with the Professional Engineer of record.
7. Please note the streets are shown as private, but the City's Master Plan requires these roadways to be public. Please revise this change on all applicable plan sheets.
8. Please note the current site-specific ordinance will need to be amended to address the reduction in the total number of lots; minimum lot sizes; the inclusion of the covenant area; the stormwater requirements relating to Phase II of the Clean Water Act, now imposed on new developments; sustainable planting, under the new guidelines of the City; Traffic Generation Assessment Fee increases over the last decade; and a range of inclusions to the governing ordinance that will now be required to ensure the initial buyers, as well as any other individuals that make subsequent purchases of them, are aware of the environmental history of this property. Along with these items, the participation of the developer in any additional federal or State cleanup activities that may be needed or determined to be applicable, once grading begins upon the property and any environmental hazards, barrels, or other conditions are discovered or unearthed, will also be addressed at this time. Please note a public hearing has been tentatively set for September 21, 2015 to consider these changes to the governing ordinance that are now required due to modifications to the site.
9. Please be advised the Department would recommend the owner consider undertaking a study of the site to determine if the applied standard for the completed cleanup represents the appropriate health-based standard for continuous use of the property by individuals, under its planned residential classification. A number of the City's consultants have commented on this matter and that information is available to the property owner and his attorney for review and use.

### Governing Ordinance >>>

The Department has not yet received an updated plan, which was requested, when the City issued its initial comment letter on the original submittal. Consequently, the Department is awaiting information on the following items:

1. The reduction in the total number of lots, minimum lot sizes, the inclusion of the covenant area;
2. The inclusion of stormwater requirements relating to Phase II of the Clean Water Act, now imposed on new developments;
3. The use of sustainable plantings, under the new guidelines of the City,
4. The update of Traffic Generation Assessment Fee increases over the last decade;
5. The modification of the governing ordinance to include conditions to ensure the initial buyers, as well as any other individuals that make subsequent purchases of them, are aware of the history of this property; and
6. The participation of the developer in any additional federal or State cleanup activities that may be needed or determined to be applicable, once grading begins upon the property and any

environmental hazards, barrels, or other conditions are discovered or unearthed, will also be addressed at this time.

7. The creation of a new and managed buffer between the covenant area and the homesites.
8. The addition of safeguards to limit and control access to the covenant area.
9. The establishment of limitations on the developer's ability (or any successor's ability) to amend or terminate the recorded covenant, without the City's approval first.
10. The development of a notice process and the City's approval of any land disturbance within the covenant area.

### Next Steps >>>

Accordingly, at tonight's update and discussion, the following outline will be used for the purposes of addressing the identified items from the September public hearing and then allow for the Department to obtain any additional information necessary for the Planning and Zoning Commission to address the ongoing direction from the City Council:

- I. Hold a (Closed) Session (RsMO 610.021 (1)) with the Planning and Zoning Commission members with legal counsel at the start of tonight's meeting.
- II. Reconvene thereafter in Regular Session to hear from the City's Special Counsel on those items identified by the petitioner's attorney at the public hearing.
- III. Solicit further public comment.
- IV. Determine next steps.
- V. Close discussion and no action is being requested by the Department of Planning at that time.

If any of the Commission Members should have questions or comments in this regard, please feel free to contact the Department of Planning at (636) 458-0440. Thank you for your consideration of this information and input on the same.

**CITY OF WILDWOOD, MISSOURI**  
**RECORD OF PROCEEDINGS**

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**MEETING OF THE PLANNING AND ZONING COMMISSION**  
CITY HALL, 16860 MAIN STREET, WILDWOOD, MISSOURI  
SEPTEMBER 21, 2015

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The Planning and Zoning Commission meeting was called to order by Chair Bopp, at 7:30 p.m., on Monday, September 21, 2015, at Wildwood City Hall, 16860 Main Street, Wildwood, Missouri.

**I. Welcome to Attendees and Roll Call of Commission Members**

Chair Bopp requested a roll call be taken. The roll call was taken, with the following results:

PRESENT – (8)

Chair Bopp  
Commissioner Archeski  
Commissioner Peasley  
Commissioner Renner  
Commissioner Gragnani  
Commissioner Liddy  
Commissioner Bauer  
Mayor Woerther

ABSENT - (2)

Commissioner Lee  
Council Member Manton

Other City Officials present: Director of Planning Vujnich, City Attorney Golterman, and Senior Planner Arnett.

**II. Review Tonight's Agenda / Questions or Comments**

There were no questions or comments on the agenda.

**III. Approval of Minutes from the September 8, 2015 Meeting**

A motion made by Commissioner Archeski, seconded by Commissioner Peasley, to approve the minutes from the September 8, 2015 meeting. A voice vote was taken regarding the motion for approval of the minutes. Hearing no objections, Chair Bopp declared the motion approved.

**IV. Department of Planning Opening Remarks**

The Department did not have any opening remarks.

**V. Public Hearings – One (1) Item for Consideration**

(a.) **P.Z. 1 and 1a-99 W.J. Byrne Builders, Inc., 3112 Shady Glen Estates Drive, Wildwood, Missouri 63038** - A request to amend existing Planned Residential Development Overlay District Ordinance #1321 to accommodate changes associated with a redesign of this residential subdivision that was originally approved for twenty-three (23) total units, on individual lots, to be located on a 18.33 acre tract of land, which is located on the north side of Strecker Road, east of Englebrook Drive (Locator Numbers

22U240024, 22U330031, and 22U330062 /Street Addresses 177 Strecker Road, 165 Strecker Road, and 173 Strecker Road). The modifications reflect changes to the site due to environmental considerations relating to a restrictive covenant approved and signed between the property owner and the United States Environmental Protection Agency (EPA), which has necessitated changes to its previously approved design. (Ward Two)

Chair Bopp provided those in attendance with the guidelines for tonight's public hearing.

Senior Planner Arnett read the request into the record.

Director of Planning Vujnich narrated a slide show of photographs illustrating the subject site and adjacent properties. He then gave a brief history of requests on the site, the number of state and federal agencies involved in the clean-up process, and the highlights of the primer provided for tonight's hearing. Additionally, he noted an approval letter was received from Metropolitan St. Louis Sewer District (MSD) and had been provided to the Commissioners. Finally, he noted the modifications to the plan were enough to prompt a public hearing for these changes.

Mike Boerding from Sterling Engineering, noted he was representing Claymont Development and the Amended Site Development Plan being presented reflects a reduction of three (3) lots and changes to two (2) other of the remaining twenty (20) lots to have their size modified. He explained the reduction in lots was to accommodate the relocation of the retention basin and a sanitary sewer line due to the establishment of the covenant area.

Greg Stine, 16209 Trade Winds Court, noted he was speaking as a citizen and a Council Member to express his concerns about the development. He is opposed to the development. *[His comments were submitted in writing and have been included as part of these minutes.]*

Dan Duffy, 258 Bonnie Court, noted he wanted to thank the City for including him in the mailing, even though he does not live in Wildwood. He commented that he is a runner and often runs by the site and noted it has a foul odor, especially after rainstorms. He also expressed his concern with the site being cleaned by the Environmental Protection Agency (EPA) to a recreational standard, and not to a residential level.

Dan Topik, 1576 Englebrook Drive, noted he has concerns about the number of cancer cases around the subject site. He noted he has been involved in this site for years and will continue to be opposed and speak out against its use. He is opposed to the development.

Barbara Sprenger, 84 Strecker Road, noted her support for the City's request for disclosures from the agencies who complete testing on the site and that blasting be prohibited. She also noted that, with the passing of time and the modifications in testing, that some requirements from the previous approval may not be appropriate now. She stated it was her belief the covenant area is inappropriate, and that five (5) year testing intervals should be conducted on the site. She is opposed to the development.

Victoria Allen, 1651 Idle Rock Farm Road, noted she has conducted years of research on the EPA and believes it is corrupt and have not done its job. She believes the City should not take stock in its findings. She then read a section from the book titled *Poison Spring*. She is opposed to the development.

Tammy Shea, Ward 3, provided a retrospective of her research and applicable documents on this topic. She expressed concern with the City considering this modification, while there is active litigation from the

developer to the City, and her belief that the proposed plans were not available to the public. She is opposed to the development.

Carrie Hermeling, with Husch Blackwell, petitioner's legal representative, noted the petitioner is requesting three (3) changes and the proposed plan meets the City Code for an Amended Site Development Plan. She requested the City Code and Master Plan be added as part of the record. She noted the eight (8) acres of the site that have been repeatedly tested and proven clean where the residential homesites are proposed. The property has approval from both state and federal agencies and the City should approve the Amended Site Development Plan.

Mary Morton, 211 Strecker Farms Court, noted her concerns with the disturbance of the property. She requested a copy of the letter the City Council sent to the EPA, with its concerns regarding this development.

Director of Planning Vujnich noted mailings had been sent certified to the property owner and his engineer, and the packet can be found on the website, including the proposed plans.

Discussion was held regarding the following: the copy of the restrictive covenant that will be provided as part of the packet; the desire to have Mr. Morrison, the City's environmental counsel, at future meetings; the conditions for payment of fees to MSD; the next step in the process, which is to provide the documentation on the sixteen (16) years of information on this request; the timing of when the proposal will return to the Commission, which is likely the beginning of November; the Caulk's Creek surcharge fee charged by MSD; the existence of monitoring wells on site, but unsure who is gathering the results; and the knowledge the ephemeral drainageway that is located on-site is a losing creek.

A motion made by Commissioner Peasley, seconded by Commissioner Gragnani, to close the public hearing. A voice vote was taken regarding the motion to close the public hearing. Hearing no objections, Chair Bopp declared the motion approved.

## VI. Old Business – One (1) Item for Consideration

Letters of Recommendation – One (1) Item for Consideration/Reconsideration

(a.) **P.Z. 2-15 (Reconsideration) City of Wildwood Planning and Zoning Commission, c/o Department of Planning, 16860 Main Street, Wildwood, Missouri 63040** – A request of the City Council of the City of Wildwood, Missouri for the Planning and Zoning Commission to reconsider its action regarding the review and consideration of possible changes to the definition of 'Farm', 'Domestic Animals', and 'Stables-Private', under the current regulations of the City of Wildwood Zoning Ordinance (Chapter 415 of the City of Wildwood Municipal Code, Section 415.030 *Definitions*), which governs the use of properties in certain residence district zoning designations, i.e. 415.090 NU Non-Urban Residence District and 415.110 R-1 One Acre Residence District. The intent of this request for reconsideration is to review the Planning and Zoning Commission's action that amended the definitions of 'Domestic Animals and Stables-Private', so as llamas were to be considered an accessory activity to the primary use of the property, with the direction to offer a least impactful approach to the same recommended outcome. **(Wards – All)**

Senior Planner Arnett read the request into the record.

Director of Planning Vujnich reviewed the history of this request, which was a modification of certain definitions in the Zoning Code. He then noted the Historic Preservation Commission had heard a request on

the property, which prompted P.Z. 2-15, to be included on the City's local historic registry, with a zoning incentive. The Historic Preservation Commission recommended the property be placed on the City's historic registry and the zoning incentive allowing fifteen (15) llamas on the property. This recommendation was to be presented to the Planning and Zoning Commission and the City Council for ultimate approval. In the meantime, a correspondence was received from Mr. and Ms. Wier stating they now own the property on Glencoe Road, and have also reached an agreement with adjacent property owners to lease a portion of their ground, thereby, increasing their property size to five (5) acres. With the property totaling five (5) acres in size, a farm is a permitted use and the llamas are permissible domestic animals. With the change in ownership, and the granting of the lease, they have requested the withdrawal of the historic registry application on the property. Additionally, the amendment to the definition of farm that was being considered is now moot and should be withdrawn as well.

A motion was made by Mayor Woerther, seconded by Commissioner Archeski, to withdraw P.Z. 2-15 and the historic registry application.

Discussion was held regarding the following: the timing of the recording of the easement and the lack of access by the llamas to the additional acreage.

Chair Bopp called the question.

A roll call vote was taken, with the following results:

Ayes: Commissioner Archeski, Commissioner Gragnani, Commissioner Peasley, Commissioner Liddy, Commissioner Bauer, Commissioner Renner, Mayor Woerther, and Chair Bopp.

Nays: None

Absent: Commissioner Lee and Council Member Manton

Abstain: None

Whereupon, Chair Bopp declared the motion approved by a vote of 8-0.

**VII. New Business – No Items for Consideration**

**VIII. Site Development Plans-Public Space Plans-Record Plats – No Items for Consideration**

**IX. Other – No Items for Consideration**

**X. Closing Remarks and Adjournment**

A motion was made by Mayor Woerther, seconded by Commissioner Peasley, to adjourn the meeting. A voice vote was taken. Hearing no objections, Chair Bopp adjourned the meeting at 9:00 p.m.

Approved by:   
Secretary – City of Wildwood Planning and Zoning Commission

Note: Recordation of the opinions, statements, and/or other meeting participation in these minutes shall not be deemed to be an acknowledgement or endorsement by the Commission of the factual accuracy, relevance, or propriety thereof.

\* If comment cards were submitted indicating they did not wish to speak at tonight's meeting, they have been attached and made part of the official record.

9/21/15

Good Evening,

I am here before you wearing many hats. I am a concerned citizen; a parent; a neighbor; a homeowner. Most pertinent ~~ly~~ to tonight's meeting, I am here as a Wildwood City Councilmember that is very concerned about the recent decision by the City Council to resume the planning process for the proposed development known as "Strecker Forest".

Strecker Forest is not located in my district of Wildwood, Ward 7. But the people's government has many responsibilities. First and foremost: to look after the general welfare and safety of its citizens. Safety first. *Wildwood and safety of ALL residents.*

This residential development is being proposed on a site that has a 40 year history as one of the most polluted places in Missouri. There have been many EPA cleanups – at least 4 - and just as many assurances that the site was "clean" and ready for residential use. In December 2014, we received a similar assurance, although this time with some caveats (i.e. "cleanliness" of the site using a recreational standard for 'acceptable exposure' to dioxins, PCBs, etc. vs. a tougher residential standard; an environmental covenant will be in place; work will continue.)

**Let me restate the issue: the developer is proposing to put houses on the still-active Ellisville-Bliss EPA Superfund Site.**

I am standing here now as a person that ultimately will be one of a handful that has to decide on how best to serve the public – today's citizens and tomorrow's. *with regards to this site*  
***am here because I believe that there should be absolutely NO development on the site - EVER.***

*I do not take this responsibility lightly. Therefore -*

Here is why:

- Disturbance of the site will pose an imminent risk to those that live in the area because of dust and distribution of soil on roads.
- Development of the site risks the health of employees and contractors working for the developer. It seems highly unlikely that the developer will voluntarily notify these workers or provide safety gear and equipment.
- According to the EPA's December 2014 Removal Action Report, the dioxins, PCBs and other very dangerous chemicals have spread and migrated into environmentally sensitive Caulks Creek over the 35-year span since EPA first took measurements. Caulks Creek is a tributary to the Missouri River, as well.
- Several residents, pets and other animals in surrounding subdivisions have developed very rare cancers - and some have DIED. These cancers were very similar to those contracted by residents of Times Beach, MO in the late 1970s, a site that was also contaminated by Russell Bliss.
- The developer, Claymont Development LLC, bought the land at ABOVE MARKET VALUE (18.2 acres at \$67,000/acre vs. ~\$40,000/acre today) at the peak of the economic recession, fully aware that it was seriously contaminated. When the development was halted in 2008, Claymont sued the City for actual and punitive damages. It is my suspicion that the intent of the developer when it bought the property was to extort the City if it decided to prevent development.

- The City has commissioned multiple studies on the site by nationally recognized experts on dioxin over the past ten years. ALL of them have strongly recommended AGAINST any development on this and adjoining sites. The City's expense for this work has been nearly \$700,000.

***To allow any development on the site would be complete madness.***

Please understand that I greatly respect my fellow Councilmembers, the City staff and members of the Planning and Zoning Commission. They are good and caring people; I believe that they want to do the right thing, but are afraid of causing serious financial harm to the City. Unfortunately, the financial liability of the City is very significant whether or not houses are built on the site, therefore the potential risk of serious illness and environmental impacts must sway the outcome of this debate.

The damage was done by Russell Bliss 40 years ago, not Claymont, or the EPA, or the surrounding residents; unfortunately, Wildwood now will have to decide whether the numbers of those impacted (financially or through health/safety issues) will expand into the future.

Through the coming months, I hope you – and Claymont – come to agree: this site must be left undisturbed.





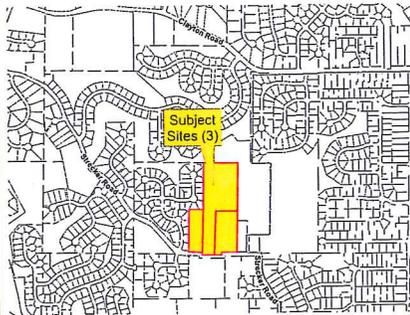
WILDWOOD

16860 Main Street  
Wildwood, MO 63040

**CITY OF WILDWOOD  
NOTICE OF  
PUBLIC MEETING**  
before the Planning and Zoning Commission  
**Tuesday, January 19, 2016, at 7:30 p.m.**

AS A RESIDENT OR PROPERTY OWNER NEAR THE SITE THAT IS IDENTIFIED ON THIS MAILER, THE CITY OF WILDWOOD WOULD LIKE TO ENSURE YOU ARE AWARE OF THIS REQUEST/PROPOSAL BECAUSE IT IS LOCATED WITHIN 3,000 FEET OF YOUR PROPERTY. YOUR COMMENTS ARE ENCOURAGED, ALONG WITH YOUR PARTICIPATION AT THE SCHEDULED HEARING OR MEETING. THIS ITEM IS SCHEDULED FOR DISCUSSION AND ITS OUTCOME MAY IMPACT YOUR HOME, NEIGHBORHOOD, OR AREA, SO PLEASE CAREFULLY READ THE DESCRIPTION AND PARTICIPATE AT YOUR DISCRETION. THE CITY OF WILDWOOD ENCOURAGES CITIZEN INPUT AT ALL OF ITS HEARINGS OR MEETINGS AND YOUR INVOLVEMENT WILL ASSIST IT IN REACHING THE BEST DECISION POSSIBLE FOR ALL PARTIES.

\* PLEASE SEE YELLOW BOX ON OPPOSITE SIDE OF THIS MAILER FOR A LIST OF WAYS TO EITHER COMMENT ON AND/OR TRACK THIS ITEM.



Street Address of Subject Site:  
165, 173, and 177 Strecker Road

THE CITY WELCOMES AND ENCOURAGES  
YOUR COMMENTS AND PARTICIPATION IN  
ITS PUBLIC PROCESSES.

Listed below is a request that was presented to the Planning and Zoning Commission at a public hearing held on September 21, 2015. You and many of your neighbors may have expressed interest in its outcome and the Commission is scheduled to again discuss this item at their upcoming meeting, although no action is being recommended at that time. If inclined, the Commission encourages you to attend this meeting to hear, and participate in, the discussion on this matter. The meeting will be held on **Tuesday, January 19, 2016, at 7:30 p.m.** in the City Hall Council Chambers, 16860 Main Street, Wildwood, Missouri 63040. The specific request under consideration is as follows:

**P.Z. 1 and 1a-99 W.J. Byrne Builders, Inc., 3112 Shady Glen Estates Drive, Wildwood, Missouri 63038** - A request to amend existing Planned Residential Development Overlay District Ordinance #1189 to accommodate changes associated with a redesign of this residential subdivision that was originally approved for twenty-three (23) total units, on individual lots, to be located on a 18.33 acre tract of land, which is located on the north side of Strecker Road, east of Englebrook Drive (Locator Numbers 22U240024, 22U330031, and 22U330062 /Street Addresses 177 Strecker Road, 165 Strecker Road, and 173 Strecker Road). The modifications reflect changes to the site due to environmental considerations relating to a restrictive covenant approved and signed between the property owner and the United States Environmental Protection Agency (EPA), which has necessitated changes to its previously approved design.  
**(Ward Two)**

**\*RESIDENT OR PROPERTY OWNER - PLEASE COMMENT ON AND/OR TRACK THIS REQUEST BY:**

- 1) Submitting a comment online by visiting: <http://www.cityofwildwood.com/comment>.
- 2) Submitting a written comment prior to the hearing and addressed to the Planning and Zoning Commission, City of Wildwood, 16860 Main Street, Wildwood, Missouri 63040.
- 3) Viewing the Planning and Zoning Commission's agenda, which is available on the City's website at: [www.cityofwildwood.com](http://www.cityofwildwood.com), the Friday before the aforementioned meeting date.

If you should have any questions regarding this information, please feel free to contact the Department of Planning at (636) 458-0440. Thank you in advance for your interest in this matter.



# WILDWOOD

## MEMORANDUM

To: Mayor Timothy Woerther and City Council Members

From: Ryan S. Thomas, City Administrator

Date: January 8, 2016

Re: EPA Written Response and Future Actions

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### Background

The City is now in receipt of the attached letter from the United States Environmental Protection Agency (EPA), in response to the City's letter of August 25, 2015 regarding the Ellisville Superfund Site. The EPA has provided much of the technical information that was requested but has offered very little in terms of future actions. This item has been placed on the January 11, 2016 City Council Meeting Agenda, to provide an opportunity to discuss what steps the City should now take following receipt of this letter and accompanying information.

### Recommendations

1. Consider re-engaging the firm, Environmental Stewardship Concepts (Dr. Peter DeFur), to provide technical guidance. Environmental Stewardship Concepts previously prepared a Human Health Risk Assessment Report, dated March 14, 2011, for the proposed Strecker Forest development site, and has significant experience with Superfund Sites. Their guidance could prove very helpful in pursuing the other recommendations that follow.
2. Provide written notice to the EPA that the City of Wildwood has continuing concerns regarding the Ellisville Superfund Site, and objects to the delisting of any of its Sub Sites until such time that all human health concerns have been addressed to the satisfaction of the City.
3. Determine how Federal legislators may be able to intervene (ie. additional funding for further testing and remediation to current residential standards, funding for public land purchase(s), etc.), and request meetings with the appropriate legislators.
4. Other actions as may be identified during the January 11, 2016 City Council Meeting and through subsequent discussions with the City's consultants.
5. Once the City's next steps are determined, provide a status update on the City website.

Please be prepared to discuss this item during the January 11, 2016 City Council Meeting.

RST

*Planning Tomorrow Today™*



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 7**

11201 Renner Boulevard  
Lenexa, Kansas 66219

**DEC 09 2015**

Mayor Tim Woerther  
City of Wildwood  
16860 Main Street  
Wildwood, Missouri 63040

Dear Mayor Woerther:

Thank you for your letter dated August 25, 2015, in which you raised a series of questions, and for the follow-up telephone conversation on December 2, 2015, which helped clarify your request for information. We have always appreciated the dialogue we have established with you and community leaders, and look forward to continuing the conversation in order to resolve these matters.

Below are responses to the questions you raised. Some of these responses reiterate positions established through our previous discussions, or that have been communicated in previous public meetings.

Response to "General Comments"

- 1. Please provide an opportunity for a public meeting, to allow citizens and other interested parties to provide public comments regarding the EPA/MDNR long-term strategy.**

As you may recall, the EPA presented information to the public regarding the status of current and future actions at the site on September 8, 2014, which roughly coincided with the completion of the soil removal action that occurred during 2014. That public meeting, held during one of your city council meetings, was held at the request of the city administrator to provide a summary of the actions performed, provide a summary of the path forward at the site, and provide an opportunity for the community to ask questions and make comments. The September 2014 meeting was one in a series of public meetings, open houses, and related events we have held over the past few years. At this time there is no new information to present that has not already been discussed previously. Instead of another public meeting that would likely restate the positions previously communicated to the public, we suggest reconvening the dialogue group to discuss long-term stewardship. Completion of the long-term stewardship plan will provide the next best opportunity to hold a public meeting.

- 2. Please further investigate the surface and subsurface contamination, which remains in the creek bed area at the northeast corner of the Claymont Development property, as identified in the December 2, 2014 Removal Action (RA) Report. Additionally, please analyze the archived Sampling Units (SU) samples for Decision Units (DU) 39, 47 & 48 because: 39 & 48 overlap (this area under Covenant); and, 47 (1.5 acres) and 48 (1.8 acres) are too large to be reduced to a 4 ounce jar and yet retain an Upper Confident Limit (UCL).**

The EPA has no current plans to further investigate areas at the Ellisville Superfund site, as site conditions are reasonably well understood. However, the EPA is willing to discuss limited surface soil sampling in the "creek bed area" if that is still a concern. In addition, as we have stated in past discussions, the areas related to decision units 47 and 48 were sampled to simply get a general idea of soil conditions in those areas, not a full characterization, as these areas were extensively cleaned up in the past.

- 3. Please further investigate the concerns previously identified by Mundell & Associates, which were not addressed as part of the 2012 Removal Action on the Callahan property. These concerns are set out on the attached pages numbered 6-8, items 7 through 10.**

With respect to items 7 through 9 in the Mundell & Associates comments:

The areas that are referenced (DU-1 and "soil impacts in the area of MW-C-1") were addressed (i.e., soil was excavated in these areas) as part of the 2012 removal action. Therefore, it would seem that items 7 through 9 have effectively been addressed.

With respect to item 10, "Impacts Downslope of Excavated Drum Fill Area," the comment given by Mundell & Associates is that "Potential soil/water impacts downslope of the excavated drum area above conservative residential LOCs may be present." The EPA analyzed five sampling events that took place from 1982 to 2012 to characterize current conditions, including the fill and drum staging areas, drainage ways and other areas of the property. Based on this analysis, the EPA has concluded that the current conditions of the Callahan property are adequately characterized and that all dioxins and furans, metals, polychlorinated biphenyls, semi-volatile organic compounds, and volatile organic compounds remaining in surface and subsurface soil are below a level of concern for all potential users of the property, including residents.

- 4. Please provide an update on the establishment of a trust to facilitate any Long Term Stewardship issues that may surface in the future at any of the sub-site properties.**

There is no substantive update on the establishment of a trust to facilitate any long-term stewardship issues at any portion of the Ellisville site. The EPA's focus with respect to these matters is in pursuing additional environmental covenants at affected properties at the site.

Environmental covenants are allowable under our authority, promote federal/state/local collaboration, and maintain long-term institutional controls in areas within the Bliss sub-site that may require it. The advantages of a collaborative effort between private landowners, the EPA, the Missouri Department of Natural Resources, and the cities of Wildwood and/or Ellisville are compelling and were made possible the past several years under the Missouri Environmental Covenants Act. The private landowner is legally bound, the EPA and MDNR have oversight and enforcement power, and even the local governments can enforce the covenant if they choose to participate in this endeavor. This creates a long-term relationship between all of the necessary parties at the Bliss sub-site. This modern template for collaboration, coupled with MDNR groundwater monitoring activities, provides the best opportunity for a long-term stewardship concept.

5. **Please provide an update on further characterization of groundwater contamination and the potential for indoor air intrusion into area residences.**

The Missouri Department of Natural Resources plans to release an updated report on their groundwater and related investigations sometime within the next year.

6. **Please provide a current assessment of the Rosalie property.**

To the best of my knowledge, the status of the Rosalie property is unchanged from its status when it was cleaned up; no additional investigation is being contemplated by the EPA.

Response to "Additional Citizen Comments/Questions"

1. **The 2008 MDNR geo-probe investigation has been omitted from EPA reports, even though there were 8 borings on or adjacent to the northeast corner and all contained soil gas. The Covenant includes this area and since soil gas can rise into the ambient air as toxic vapors, how does the EPA intend to control this current and future health risk?**

Potential vapor intrusion is being investigated by MDNR. MDNR will be providing a summary of these efforts, as well as conclusions/recommendations, in future report(s). Such report(s) will include the 2008 MDNR geo-probe investigation information.

2. **In 1987, to address all Missouri (MO) dioxin sites, the EPA established the cleanup guidelines that were concurred with the Centers for Disease Control and Prevention (CDC). Regardless of the land zoning or land usage, the presence of a stream (on or adjacent) requires residential standards, not only to the streambed but also to surrounding surfaces that drain into the stream. Since water/erosion still transports dioxin, has the CDC concurred with the change to the guidelines?**

The presence of a stream, in and of itself, does not require residential standards under Superfund guidelines.

3. **The Bliss Covenant area applies to only the 2014 RA area, while the Strecker Forest Covenant includes the streambed and northeast corner which were not part of the RA area. Please explain this discrepancy.**

The Strecker Forest Covenant was executed so that the northeast area of this development property could be efficiently captured in a post-removal, one-time transaction. This means that areas that may have trace amounts of dioxin could all be captured in one legal instrument since development could occur there in the shorter term. In contrast, the Bliss Covenant pertained to the actual dig area since it is a family farm and residence area under no such time pressures. The larger Bliss parcel is also a previously remediated acreage that requires further work and discussions between the EPA and the landowner. In light of these factors, the agency confined the Bliss covenant area to that portion of property where the removal action actually impacted that landowner.

4. **What standards are being applied to the monitoring well data?**

MDNR will be discussing monitoring well data in their report.

5. **Other than possibly delisting properties off the National Priorities List (NPL) and applying Covenants, what specifically would be the difference between future and past monitoring?**

The establishment of additional covenants would likely not change future or past monitoring strategies.

6. **In reference to the Removal Action Report for the Claymont Development property, please address the following:**

- a. **The Pollution Reports (POLREPS) mentioned possible Potentially Responsible Parties (PRP) – were any named?**

Questions on enforcement aspects of the removal action can be directed to the site attorney, Shawn Grindstaff, at [grindstaff.shawn@epa.gov](mailto:grindstaff.shawn@epa.gov).

- b. **What were the pre-and-post excavation dimensions for each Excavation Area (EA)?**

Dimensions of each excavation area were not recorded. A survey, performed after the excavation areas were backfilled, was conducted to record the surficial extent of the removal. An estimate of the excavation areas is as follows:

EA-1: 2,430 ft<sup>2</sup>

EA-2: 1,520 ft<sup>2</sup>

EA-3: 7,020 ft<sup>2</sup>

- c. **What were the dimensions and volume capacity of the retention pond? Since EA-1 was still open, why did water have to be pumped out of only EA-3? Was perched water encountered?**

The dimensions of the retention pond were not surveyed. A reasonable estimate of the volume would be 40'x 40'x 4' or approximately 6,400 ft<sup>3</sup>.

EA-3 was the first area excavated. A portion of the excavation fell within a local drainage ditch and was within the area of influence of drainage of the former Mid-America Arena roof line. To manage surface water, a berm was constructed across the drainage ditch upgradient of EA-3. The retention basin was constructed downgradient. Water was pumped from EA-3 to dewater the excavation due to precipitation events. This water consisted of local runoff and runoff from the roof of the adjacent building.

Water was only pumped from EA-3 because accumulations of water in EA-3 hampered the operational schedule. No significant water accumulated in EA-1.

Perched water, or water entering the excavations from the vadose zone, was not observed.

- d. **Did any workers need to upgrade their protective gear to include a respirator?**

Level C was the primary level of personal protective equipment (PPE) used to protect workers from chemical and physical hazards while excavating within each excavation area. Level C

protection included respiratory protection, disposable gloves and disposable coveralls. In all other phases of operation, Level D, or standard work clothes were required.

There was no decision to upgrade the level of PPE during the project.

- e. **Seven samples from roll-off boxes and 4 soil samples from EA-3 were submitted for disposal profile sampling. Please extract that lab data and submit it under separate cover. Were landfill standards applied to data?**

Table 4 of the 2014 Removal Action report summarizes the 73 dioxin waste profile samples submitted for laboratory analysis. These samples were used to categorize the dioxin contaminated waste into one of two waste streams as described in the report.

An initial sample (SFRA-4) was collected and submitted to the Lone Mountain waste management facility. The facility screened this sample to ensure the soil could be accepted as waste. This sample was collected as a representative sample of soil conditions at the site. Sample results of SFRA-4 are included in Appendix D of the 2014 Removal Action report (enclosed).

Additional sampling was conducted in EA-3 when stained soil was encountered. The stained soil represented a change in conditions and additional waste profile samples were required. These included SFRA-25, SFRA-34, SFRA-35, and SFRA-36. This data is included in Appendix D of the Removal Action report (enclosed).

- f. **The 9-26-13 Site Action Memo did not state a limitation regarding depth. EA-1 has six areas of subsurface exceedances. Please explain why excavation was terminated before attaining the 2,460 ppt standard.**

The primary objective of the removal action, as described in the 9-26-13 Action Memorandum, was to excavate soils within individual Sample Units that were determined to exceed 820 parts per trillion at the surface. This objective was met. As work progressed at EA-1, it became apparent that the excavation in this area (1) was exceeding or beginning to exceed the limits described in the 9-26-13 Action Memorandum (i.e., the Sample Units at EA-1 that exceeded 820 parts per trillion at the surface had been completely excavated), and (2) was bordering or encroaching upon the removal action conducted in the 1990s, an action which included leaving some dioxin-contaminated soils at depths of one foot or greater.

Therefore, the decision was made to cease excavation at the boundaries indicated in the removal action report, as the primary objective of the response had been met.

- g. **Fig. 2 Pre-Excavation**  
i. **Please add a triangle illustrating EA-1.**  
ii. **Soil Boring table is illegible.**

A revised Removal Action Report is now available on the EPA's Region 7 website: see "Strecker Forest Environmental Review" tab on the EPA Region 7 main page. The polygon illustrating EA-1 is indicated on the post-excavation area of the figure. The soil boring table can be magnified in adobe acrobat.

**h. Fig. 2 Post-Excavation**

- i. Please illustrate NPL line in bright color.**
- ii. Please add the 4 cell letters to EA-2.**
- iii. Please clarify EA-1 with Table 3 since it's an odd shape with 4 north walls.**

The NPL boundary is indicated in Figure 3, and in other reports, including the 2012 "Site Reassessment Report for an Expanded Site Review." EA-2 was not separated into smaller cells during the removal action; it was considered one cell/area during the removal action. Additional clarifications to EA-1 can be found in the main text, including Table 3.

**i. Fig. 3**

- i. Please illustrate NPL line in bright color.**
- ii. Please add the 4 cell letters to EA-2.**
- iii. Please clarify EA-1.**
- iv. Please add all property lines.**

The NPL boundary is indicated in Figure 3, and in other reports, including the 2012 "Site Reassessment Report for an Expanded Site Review." EA-2 was not separated into smaller cells during the removal action; it was considered one cell/area during the removal action. Additional clarifications to EA-1 can be found in the main text, including Table 3. The 2012 Site Reassessment Report includes an overall estimation of property lines.

**7. Please provide the original application to the Superfund for the Bliss/Ellisville Site.**

There is no "original application" that I am aware of. If this question speaks to documentation of site boundaries, site history, and other related items, a good starting point would be the 1986 Record of Decision (enclosed).

**8. Please provide the 1986 Record of Decision for the Bliss Site.**

Enclosed (on compact disc) is the Record of Decision document you requested.

**9. Please provide the 8-22-91 letter from EPA to DNR regarding groundwater monitoring.**

Enclosed (on compact disc) is the document you requested.

**10. Please provide the 1996 EPA Region VII Emergency Response and Removal, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Removal for the Bliss-Ellisville Site, Wildwood, MO, prepared by Ecology and Environment.**

Enclosed (on compact disc) is the document you requested.

**11. Please provide the amendment (or change) to CERCLA Law that permits a Covenant to substitute for 5-Year Reviews.**

There is no amendment or change to CERCLA that specifically permits a covenant to substitute for a 5- year review.

We continue to appreciate the open communications and discussions we have had on these matters, and we believe the dialogue group has provided an effective forum for reaching resolution. We remain committed to continuing the dialogue in order to get the long-term stewardship plan in place. Feel free to contact me at (913) 551-7625 if you have additional questions.

Sincerely,



David P. Williams  
Chief

Planning and Preparedness North Section  
Superfund Division

cc: Dennis Stinson, Missouri Department of Natural Resources (w/o enclosures)

Enclosure: Compact disc containing

- (1) Letter from EPA to MDNR dated August 22, 1991;
- (2) CERCLA Removal: Bliss-Ellisville Site, Wildwood, Missouri, November 18, 1996;
- (3) EPA Superfund Record of Decision: Ellisville Site, 1986.
- (4) Appendix D of 2015 Removal Action Report



## WILDWOOD

August 25, 2015

Mr. David Williams  
U.S. EPA Region 7  
Chief, Planning and Preparedness North  
Hazardous Material, Oil and Disaster Response  
11201 Renner Blvd.  
Lenexa, KS 66219

**Re: City of Wildwood Comments regarding Ellisville Superfund Site**

Dear Mr. Williams:

The City of Wildwood is in receipt of a document title, *Ellisville Superfund Site, Summary of Discussion Topics*, dated July 16, 2015, which provides the U.S. Environmental Protection Agency (EPA) & Missouri Department of Natural Resources (MDNR) proposed long-term strategy for addressing the many outstanding concerns involving the Ellisville Superfund Site. Following is a compilation of comments/questions from the City of Wildwood and its citizens to date. Please be advised that the City of Ellisville may have additional comments, as may other citizens following an eventual public meeting.

### **GENERAL COMMENTS:**

1. Please provide an opportunity for a public meeting, to allow citizens and other interested parties to provide public comments regarding the EPA/MDNR long-term strategy.
2. Please further investigate the surface and subsurface contamination, which remains in the creek bed area at the northeast corner of the Claymont Development property, as identified in the December 2, 2014 Removal Action (RA) Report. Additionally, please analyze the archived Sampling Units (SU) samples for Decision Units (DU) 39, 47 & 48 because: 39 & 48 overlap (this area under Covenant); and, 47 (1.5 acres) and 48 (1.8 acres) are too large to be reduced to a 4 ounce jar and yet retain an Upper Confidence Limit (UCL).
3. Please further investigate the concerns previously identified by Mundell & Associates, which were not addressed as part of the 2012 Removal Action on the Callahan property. These concerns are set out on the attached pages numbered 6-8, items 7 through 10.
4. Please provide an update on the establishment of a trust to facilitate any Long Term Stewardship issues that may surface in the future at any of the sub-site properties.
5. Please provide an update on further characterization of groundwater contamination and the potential for indoor air intrusion into area residences.
6. Please provide a current assessment of the Rosalie property.

### **ADDITIONAL CITIZEN COMMENTS/QUESTIONS:**

1. The 2008 MDNR geo-probe investigation has been omitted from EPA reports, even though there were 8 borings on or adjacent to the northeast corner and all contained soil gas. The Covenant includes this area and since soil gas can rise into the ambient air as toxic vapors, how does the EPA intend to control this current and future health risk?

2. In 1987, to address all Missouri (MO) dioxin sites, the EPA established the cleanup guidelines that were concurred with the Centers for Disease Control and Prevention (CDC). Regardless of the land zoning or land usage, the presence of a stream (on or adjacent) requires residential standards, not only to the streambed but also to surrounding surfaces that drain into the stream. Since water/erosion still transports dioxin, has the CDC concurred with the change to the guidelines?
3. The Bliss Covenant area applies to only the 2014 RA area, while the Strecker Forest Covenant includes the streambed and northeast corner which were not part of the RA area. Please explain this discrepancy.
4. What standards are being applied to the monitoring well data?
5. Other than possibly delisting properties off the National Priorities List (NPL) and applying Covenants, what specifically would be the difference between future and past monitoring?
6. In reference to the Removal Action Report for the Claymont Development property, please address the following:
  - a. The Pollution Reports (POLREPS) mentioned possible Potentially Responsible Parties (PRP) -- were any named?
  - b. What were the pre-and-post excavation dimensions for each Excavation Area (EA)?
  - c. What were the dimensions and volume capacity of the retention pond? Since EA-1 was still open, why did water have to be pumped out of only EA-3? Was perched water encountered?
  - d. Did any workers need to upgrade their protective gear to include a respirator?
  - e. Seven samples from roll-off boxes and 4 soil samples from EA-3 were submitted for disposal profile sampling. Please extract that lab data and submit it under separate cover. Were landfill standards applied to data?
  - f. The 9-26-13 Site Action Memo did not state a limitation regarding depth. EA-1 has six areas of subsurface exceedances. Please explain why excavation was terminated before attaining the 2,460 ppt standard.
  - g. Fig. 2 Pre-Excavation
    - i. Please add a triangle illustrating EA-1.
    - ii. Soil Boring table is illegible.
  - h. Fig. 2 Post-Excavation
    - i. Please illustrate NPL line in bright color.
    - ii. Please add the 4 cell letters to EA-2.
    - iii. Please clarify EA-1 with Table 3 since it's an odd shape with 4 north walls.
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    - i. Please illustrate NPL line in bright color.
    - ii. Please add the 4 cell letters to EA-2.
    - iii. Please clarify EA-1.
    - iv. Please add all property lines.
7. Please provide the original application to the Superfund for the Bliss/Ellisville Site.
8. Please provide the 1986 Record of Decision for the Bliss Site.
9. Please provide the 8-22-91 letter from EPA to DNR regarding groundwater monitoring.
10. Please provide the 1996 EPA Region VII Emergency Response and Removal, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Removal for the Bliss-Ellisville Site, Wildwood, MO, prepared by Ecology and Environment.
11. Please provide the amendment (or change) to CERCLA Law that permits a Covenant to substitute for 5-Year Reviews.

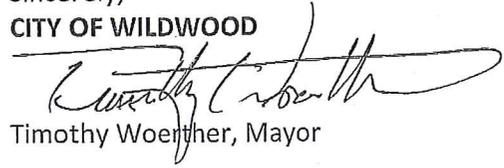
## City of Wildwood Comments regarding Ellisville Superfund Site

The City of Wildwood remains very concerned with the public health risks that may still remain within the Ellisville Site, inclusive of each of its sub-sites. Therefore, it's critical the EPA and MDNR respond in detail to each of the concerns raised herein.

If you require additional time to gather information to respond to a particular request, please do not allow the need to gather additional information to delay your response to any other request. Furthermore, please advise if you have any questions or require any additional information from the City of Wildwood. Your timely response to these matters is appreciated

Sincerely,

**CITY OF WILDWOOD**

  
Timothy Woerther, Mayor

Cc: U.S. Representative Ann Wagner  
U.S. Senator Roy Blunt  
U.S. Senator Claire McCaskill  
U.S. EPA Administrator Gina McCarthy  
U.S. EPA Region 7 Acting Administrator Mark Hague  
MDNR Environmental Quality Director Leanne Tippet Mosby  
MDHSS Director Gail Vasterling  
Governor Jay Nixon  
Missouri Representative Don Gosen  
Missouri Representative Kirk Mathews  
Missouri Representative Shamed Dogan  
Missouri Senator Dave Schatz  
Missouri Senator Eric Schmitt  
Wildwood City Council Members  
Ellisville Mayor Adam Paul  
Ellisville City Council Members

**Impact:** MUNDELL agrees that given the existing municipal water supply, the shallow aquifer zone does not appear to represent a primary water source for public consumption. However, MUNDELL believes that the groundwater still represents a potential threat to the public (e.g., dioxin and naphthalene among other compounds present above Levels of Concern), and has concern that these potential threats are not dismissed without a thorough evaluation. Even if drinking wells are not a concern, the water in the shallow aquifer zone is part of a dynamic flow system that is not completely understood at this time. As such, MUNDELL believes that the potential exists for this contaminated water to migrate to areas where an exposure pathway is completed.

For example, if the (contaminated) groundwater table rises enough to enter the nearby unnamed tributary during a high water table period (e.g., such as during and after an extended heavy rainfall period), it can pose a dermal or ingestion exposure hazard to anyone who may wade into the creek for recreational purposes. In addition, potential VI issues may be present in nearby residences if the zone of impacted groundwater extends beyond the Bliss property. Also, the contaminated groundwater may make its way to another water system (e.g., Caulks Creek) that is accessed for drinking water, agricultural, or recreational purposes. In addition, given the karstic nature of this area, there may be solution channels that direct shallow groundwater through bedrock material to surrounding springs. In fact, the U.S. EPA report cites Lewis Spring (located 3 miles to the northeast of Strecker Forest) as a discharge point for shallow groundwater from the study area.

Given the additional (potential) routes of exposure other than accessing the aquifer as a tap water source, it would be prudent, as a cautionary approach, to make the continued evaluation of the fate and transport of the impacted shallow aquifer system a priority. MUNDELL understands that the U.S. EPA will conduct dye tracing after groundwater sampling activities are no longer required. It is also hoped that the Missouri Department of Natural Resources (MDNR) is making progress toward delineating the extent of groundwater contamination in this area, and that this information is made available to the public at the earliest opportunity.

### **1.3 Callahan Site Comments**

#### **Item 7: Dioxin Results Collected From Fill**

**Comment:** Although data obtained from the U.S. EPA sampling activities will be beneficial in order to evaluate potential *surface* exposure associated with dioxin, it is likely that the surface sampling that was conducted in DU-1 sampled clean fill, and is not representative of the areas of native soil at depth that remain impacted with historic contaminants.

**Basis:** The analytical results, reporting limits and LOCs are summarized in analytical summary tables as previously discussed. As such, it does not appear that any dioxin sampling was completed from the DU sampling areas or soil borings below a depth of two ft-bgs. Therefore, the recent sampling results do not provide any indication of whether the chemical impacts within the subsurface soil are above LOCs. The U.S. EPA report does acknowledge that there may be some further risk assessment needed in consideration of future construction worker exposure, but the report emphasizes that, in terms of exposure scenarios, it is assumed that the relevant exposure pathway for residents would be to near-surface soil impacts only.

**Impact:** MUNDELL's concern with the EPA approach is two-fold:

- a) Restricting the assessment of dioxin soil quality to the near-surface leaves unresolved data gaps that remain as to the extent of dioxin contamination at depth. Based on the

2005 confirmation sampling investigation by the MDNR, the most elevated remaining impacted soil appears to be located (typically) below 7 feet. It is this soil that has the potential to show the highest levels of dioxin. Even though it is not at the surface, it should nonetheless be properly evaluated for dioxin impacts.

- b) The U.S. EPA approach is an attempt to *risk away* any contamination that remains, leaving the prospect of impacted soil remaining in place in areas that could be developed in the future for residential use. While the assumptions being made by the U.S. EPA in regards to likely exposure routes to the public are generally valid, not remediating all the impacted soil will continue to leave a stigma associated with the property, and will also require the application of excessive restrictive covenants and institutional controls in the vicinity of residential areas. This will have a negative influence on development and property values and the peace of mind any property owner would have toward living at or adjacent to the site. As a result, it would seem more appropriate to have a philosophy of removing impacted soil to acceptable conservative residential risk levels (or background levels) and not leaving any doubt as to the safety of the soil. This approach would lead to a greater confidence about property ownership and put to rest the decades of unending suspicion that plagues the area.

**Item 8: Clarification of DU-1 sampling**

**Comment:** Based on the dioxin tables and Figure 8, it is unclear whether sampling unit SU-D of Callahan Decision Unit 1 was actually sampled. If it was not sampled, an explanation should be provided by the U.S. EPA.

**Item 9: Impacted Soil Encountered During Drilling of MW-C-01**

**Comment:** Based on a discussion of impacted soil encountered during the advancement of boring MW-C-01, impacted soil was encountered, and the well was offset to the southeast approximately 15 feet. Soil impacts in this area should be delineated so that the potential impacts from this soil on groundwater quality can be better addressed.

**Item 10: Impacts Downslope of Excavated Drum Fill Area**

**Comment:** Potential soil/water impacts downslope of the excavated drum fill area above conservative residential LOCs may be present.

**Basis:** Impacted soil was identified at Callahan boring SB-C-41 at approximately the residuum/bedrock interface. Based on a review of available maps, it appears that this area is south of the excavated drum area that would have been backfilled. Boring SB-C-41 apparently was advanced in native soil. As such, the zone of impact appears to have been associated with lateral migration at depth and not from the surface. For instance, PCB arochlor 1260 and toluene are present in a shallow (*i.e.*, 4-6 ft interval) soil sample at lower concentrations relative to deeper soil samples (*i.e.*, the 12-13 ft interval).

**Impact:** While concentrations were not reported above LOCs, these observations suggest impacts downslope of the buried drum area along the bedrock/residuum interface. MUNDELL also noted that the soil samples for boring SB-C-40 went down only to 4-6 ft. Without access to the boring log, MUNDELL must conclude that based on the depth of impact seen to the south in boring SB-C-41, deeper impacts may be present at the boring SB-C-40 location.

Also, MUNDELL noted that grab samples along the ditch south of the fill area had low level detections of PCBs (Arochlor 1248; 0.24 mg/kg). The U.S. EPA LOC is listed as 22 mg/kg. However, the Missouri RBCA target level (based on a  $1 \times 10^{-5}$  cancer risk) for this compound at the soil surface is only 1.1 mg/kg. Therefore, PCBs are present at the ground surface at levels above the conservative target protective range for residential areas.

MUNDELL recommends further investigation to the south to delineate the deeper impacts observed and also sampling of any leachate seepage downslope in the ravine be considered. Also, given the proximity of residences (approximately 80 feet west of impacted fill area where strong vapors were detected at depth), it is recommended that a vapor intrusion evaluation for the nearest residences be completed as well.

## 2.0 REMEDIAL ALTERNATIVES AND LEVEL OF SITE CLEANUP

An important question that needs to be answered as it relates to the future use of the Proposed Strecker Forest Development Site is: what is an acceptable level of cleanup to ensure that the interests of the City of Wildwood and citizens are being met? There are two fundamental drivers that influence the level of remedial effort required for site surface and subsurface soils:

- 1) The distribution and concentration of dioxin; and
- 2) The distribution and concentration of other COCs.

Generally, it is expected that the needed effort to address non-dioxin COCs will be included in the remediation of dioxin-related impacts since the two types of contamination are generally intermixed. As such, the possible range of Site remedial alternatives to be considered would include:

- 1) No removal action, with associated institutional controls only (e.g., fencing and signage);
- 2) Removal of existing waste materials and impacted soils to the U.S. EPA non-cancer toxicity index of 50.5 ppt;
- 3) Removal of existing waste materials and impacted soils to the U.S. EPA target  $1 \times 10^{-5}$  excess cancer risk of 45 ppt; and
- 4) Removal of all existing waste materials and impacted soils above background dioxin levels.

### *Determination of Background Level of Dioxin*

MUNDELL reviewed the recent U.S. EPA TEQ results to further assess the distribution of dioxin across the site and to derive a background TEQ level for the Site. MUNDELL first calculated the average TEQ from all Decision Units (DUs). This resulted in **an average TEQ** of 155.86 ppt. MUNDELL also attempted to derive a reasonable background metric by utilizing the statistical average and standard deviation from the data set. The **background TEQ metric** was taken to be the average of the data set plus three standard deviations. Anything above this level would be considered non-background. A background TEQ of 1,373 ppt was calculated, equivalent to a  $3 \times 10^{-4}$  risk level.

MUNDELL then removed from consideration DUs located outside of the residential development area with a TEQ above the U.S. EPA 50.5 ppt level of concern (LOC). This resulted in a background TEQ of 46.27 ppt, which is equivalent to about a  $1 \times 10^{-5}$  risk level. The implication of this step is that a targeted soil removal across the relevant DUs outside the planned



August 6, 2015

Mr. Heath Smith  
EPA On-Scene Coordinator  
U.S. Environmental Protection Agency, Region 7  
11201 Renner Boulevard  
Lenexa, Kansas 66219

**Subject: Removal Action Report, Revision No. 4**  
**Ellisville Site (RV007), Wildwood, Missouri**  
**U.S. EPA Region 7 START 4, Contract No. EP-S7-13-06, Task Order No. 0048**  
**Task Monitor: Heath Smith, EPA On-Scene Coordinator**

Dear Mr. Smith:

Tetra Tech, Inc. is submitting the attached revised Removal Action Report regarding the Ellisville site (RV007) in Wildwood, Missouri. If you have any questions or comments, please contact the project manager at (913) 908-4649.

Sincerely,

  
for Rick Claytor, CHMM  
START Project Manager

  
Ted Faile, PG, CHMM  
START Program Manager

Enclosures

cc: Debra Dorsey, START Project Officer (cover letter only)

**REMOVAL ACTION REPORT  
REVISION NO. 4**

**REGARDING THE  
ELLISVILLE SITE (RV007)  
WILDWOOD, MISSOURI**

**Superfund Technical Assessment and Response Team (START)  
Contract No. EP-S7-13-06, Task Order 0048**

Prepared For:

U.S. Environmental Protection Agency  
Region 7  
Superfund Division  
11201 Renner Boulevard  
Lenexa, Kansas 66219

August 6, 2015

Prepared By:

Tetra Tech, Inc.  
415 Oak Street  
Kansas City, Missouri 64106  
(816) 412-1741

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## 1.0 INTRODUCTION

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to assist with a removal action (RA) at the Ellisville site (RV007) in Wildwood, Missouri. Specific elements of this task included (1) collection of post-excavation soil samples to confirm that site-specific removal action levels (RAL) had been met, (2) sampling of excavated soils for disposal profiling analyses, (3) real-time air monitoring during soil excavation, and (4) soil sampling adjacent to excavation areas to better define the extent of contamination. START also assisted with analytical services procurement, sample management, documentation of removal activities, and preparation of detailed maps and diagrams depicting excavated and sampled areas. The START project managers (PM) were Dave Kinroth and Rick Claytor, and the EPA Region 7 task monitor was On-scene Coordinator (OSC) Heath Smith.

## 2.0 SITE LOCATION

The proposed Strecker Forest development includes three parcels of land encompassing 18.3 acres north of Strecker Road in Wildwood, Saint Louis County, Missouri (see Appendix A, Figure 1). The three parcels include the former Dozier property at 165 Strecker Road (approximately 5 acres), the former Primm property at 173 Strecker Road (approximately 10 acres), and the former Schoessel property at 177 Strecker Road (approximately 3 acres). These three properties were purchased by Claymont Development, LLC with intent to develop the area as a residential subdivision (Strecker Forest). Geographic coordinates at the area are 38.597578 degrees north latitude and 90.605617 degrees west longitude (see Appendix A, Figure 1). The proposed Strecker Forest subdivision is adjacent to (south and west of) the Bliss-Ellisville subsite of the Ellisville site.

### 3.0 SITE DESCRIPTION

The proposed subdivision area is mostly undeveloped, except for remnants of foundations remaining from previously demolished structures (a garage and two abandoned homes) on the former Dozier and Primm properties. The northern two-thirds of the area is covered mostly by hardwood forest. The property is surrounded by suburban residential areas, except to the north and east, where a 12-acre tract hosts a residence, horse arena, and stables. A portion of the Strecker Forest property includes some of the Bliss-Ellisville subsite. Previous investigations had identified elevated dioxin concentrations in the northeast portion of the proposed Strecker Forest residential development area, which overlaps the western and southern boundaries of the Bliss-Ellisville subsite.

The terrain at the property slopes downward to the north from Strecker Road. Relatively steep slopes are present that vary in elevation from approximately 720 feet above mean sea level (msl) at Strecker Road to approximately 635 feet above msl along a tributary of Caulks Creek at the northeast perimeter of the site. The intermittent Caulks Creek tributary flows to the north along a ravine in the central portion of the property, and intersects another intermittent tributary crossing the northeast corner of the property. All surface water and drainage pathways on the site flow in a northerly direction toward this area (EPA 2013).

#### 4.0 SITE HISTORY/PREVIOUS INVESTIGATIONS

The following is a brief summary of the Bliss-Ellisville subsite immediately north and east of the proposed Strecker Forest subdivision:

The Bliss-Ellisville subsite borders the proposed Strecker Forest development to the north and east, and includes a small portion of a proposed preservation area at the northeast corner of the Strecker Forest property. Investigative activities beginning on September 16, 1980, identified two waste disposal areas northwest of a horse arena on the property. On June 2, 1981, trenching operations guided by eyewitness accounts identified buried drums at the Bliss-Ellisville subsite. Several followup geophysical surveys starting in June 1982 and continuing through August 1990 identified buried waste at a number of locations at the Bliss-Ellisville subsite and contiguous properties. In August 1985, the Missouri Department of Natural Resources (MDNR) placed a liner in the stream bed of the Caulks Creek tributary to stabilize the stream banks, and constructed a berm to divert overland flow from the eroding stream. EPA implemented a removal action (RA) in 1996, involving excavation and management of soil impacted by dioxin and non-dioxin wastes, along with bulk wastes in buried drums and other materials. During the RA, dioxin-contaminated materials were transported to the Times Beach site for thermal treatment (incineration). All non-dioxin hazardous wastes were managed off site at commercial Resource Conservation and Recovery Act (RCRA) permitted hazardous waste facilities. Non-hazardous materials were disposed of at a sanitary landfill. In all, 24,700 tons of dioxin-contaminated soil, 581 tons of soil contaminated with hazardous substances other than dioxin, and 480 buried drums and other containers of wastes were removed from the site. Soil samples were collected to confirm that cleanup goals had been achieved. Once cleanup activities had been completed, excavated areas were backfilled, re-graded, and seeded. The removal activities included a 0.15-acre area at the extreme northeast corner of the Strecker Forest property (referred to as the "NPL Area" of Strecker Forest during past investigations). MDNR continues to monitor groundwater and soil vapor conditions at the Bliss subsite (Tetra Tech EM Inc. 2012).

Because of its proximity to the Bliss-Ellisville subsite, the proposed Strecker Forest residential development property came under scrutiny related to environmental health concerns. From September 2011 to spring 2012, EPA and START conducted soil sampling over the entire 18.3-acre property to support an Expanded Site Review (ESR) to characterize potential impacts on human health and the environment (Tetra Tech EM Inc. 2012).

The scope of the ESR included investigation of these previously sampled areas of the development property, as well as several new areas. These included the southern portion of the Strecker Forest property where 23 home sites have been proposed for development, and an undeveloped area designated as the preservation area in the northern portion of the property. Sampling activities during the ESR occurred between September 2011 and January 2012. Initially, 39 decision units (DU) were established at the proposed Strecker Forest development site to characterize surface soils for a removal site evaluation (RSE) by application of an incremental composite sampling (ICS) approach. Follow-up sampling was conducted in July 2013, when six DUs were added (total of 45 DUs) (see Appendix A, Figure 2). Some

of the DUs were divided into smaller sampling units (SU); physical features within the SUs sometimes dictated further delineation of the SU areas for sampling purposes. These ICS activities are described in the *Removal Site Evaluation Report, Bliss-Ellisville Site – Strecker Forest Subsite, Wildwood, Missouri* (Tetra Tech 2014). The soil samples collected during the RSE were submitted to Cape Fear Analytical, LLC (CFA) in Wilmington, North Carolina, for analysis for dioxin toxic equivalence (TEQ) compounds via Method 1613B.

Elevated dioxin TEQ levels were limited to three areas covering a total of approximately 1.0 acre in the northeast portion of the property proposed for residential development. By implementing the ICS sampling methodology, it was determined that in seven of the SUs, dioxin TEQ concentrations exceeded the Preliminary Remediation Goal (PRG) of 820 parts per trillion (ppt) for non-residential, undeveloped areas of the site (see left side of Figure 2 in Appendix A). TEQ concentrations as high as 5,822 ppt were detected in surface soils. Five subsurface samples collected within and near these areas contained dioxin TEQ concentrations that exceeded the PRG of 2,460 ppt for depths greater than 1 foot. Dioxin TEQ concentrations as high as 26,684 ppt were detected in subsurface soils. EPA Region 7 determined that site conditions could pose a threat to public health and welfare, based on levels of dioxin-related compounds (specifically 2,3,7,8-tetrachlorodibenzo-p-dioxin [TCDD]) above the site-specific PRGs. The site qualified for RA consideration, based on National Contingency Plan (NCP) criteria in 40 *Code of Federal Regulations* (CFR) 300.415(b).

## 5.0 REMOVAL ACTIVITIES

Excavation to at least 3 feet below ground surface (bgs) at localized areas of the site was determined necessary to achieve cleanup goals. The map on the right side of Figure 2 in Appendix A identifies the areas addressed during removal activities (Excavation Areas [EA] 1, 2, and 3). Photos from the RA are in Appendix B. Field sheets for all samples collected during this RA are in Appendix C (provided on compact disk [CD]).

### 5.1 PRELIMINARY REMOVAL ACTIVITIES

On February 13, 2014, Mr. Kinroth collected samples of rock (SFRA-1 and SFRA-2) that would be used to improve an on-site roadway for the RA. These samples were screened for metals by use of a portable x-ray fluorescence (XRF) spectrometer, and for volatile organic compounds (VOC) by use of a MultiRAE Plus with built-in photoionization detector (PID). No elevated concentrations of metals were detected, and no VOC readings above background were observed. Mr. Kinroth also collected a composite sample (SFRA-3) of proposed topsoil to be used as backfill for areas excavated during the RA. The sample was submitted to GEL Laboratories in Charleston, South Carolina, for analysis for semivolatile organic compounds (SVOC), VOCs, polychlorinated biphenyls (PCB), and metals regulated by the Resource Conservation and Recovery Act (RCRA) (including mercury). Sample SFRA-3 did not contain concentrations of contaminants above any level of concern (see Appendix D [on CD]). A portion of this sample was also submitted to CFA for analysis for dioxins/furans (TEQ compounds) via Method 1613B. This sample contained a dioxin TEQ concentration of 1.34 ppt. The proposed topsoil source was subsequently deemed acceptable for use as backfill material for restoration of the site following excavation activities. In addition, Mr. Kinroth collected a nine-aliquot soil sample from 0-1 foot bgs at EA 1 (cells H and I) for disposal profiling analyses. This sample (SFRA-4) was provided to Clean Harbors, the firm that would be handling disposal of the excavated soil. Based on the sample results obtained by Clean Harbors (see Appendix D [on CD]), the proposed receiving facility—Lone Mountain Landfill in Waynoka, Oklahoma—agreed to accept the waste from the site.

On March 24, 2014, EPA OSC Smith, START PM Kinroth, and personnel from the EPA Region 7 Emergency and Rapid Response Services (ERRS) contractor, Environmental Restoration, LLC (ER), were on site to initiate the RA. Preliminary activities at that time included tree and brush removal, haul road preparation, establishment of staging areas for an office trailer and 25-cubic-yard roll-off boxes that would be used for off-site transportation of excavated soil, and background air monitoring (see Appendix B).

## 5.2 SOIL EXCAVATION

For this RA, removal action levels (RAL) for dioxin (TEQ) were as follows: 820 ppt in soil from the surface to 12 inches bgs, and 2,460 ppt in soil at depths greater than 12 inches bgs. Throughout the removal process, excavation activities depended on weather, pending sample results, and availability of empty roll-off boxes. Dioxin-contaminated waste generated at this site was treated as F027 (dioxin-bearing) waste. The Universal Treatment Standard (UTS) for F027 waste is 1 part per billion (ppb) for dioxin (40 CFR § 268.48). The alternative Land Disposal Restrictions (LDR) treatment standard (40 CFR § 268.49) states that treatment to achieve a constituent concentration less than 10 times the UTS is not required. Waste generated during the removal that contained up to 10 ppb of 2,3,7,8-TCDD was transported to the RCRA-permitted hazardous waste facility (Lone Mountain Landfill) in Waynoka, Oklahoma, for proper management. Dioxin-contaminated materials with average concentrations greater than 10 ppb were managed by Recupere Sol, Inc., in Saint-Ambroise, Quebec, Canada, a facility capable of meeting the UTS for F027 waste via incineration/thermal treatment prior to disposal.

After excavation of the cells to the depth that had been indicated during RSE activities, post-excavation samples were collected. A nine-aliquot surface soil sample was collected from the floor of the excavated cells. Additionally, a nine-aliquot soil sample was collected from each of the completed side wall faces. Equal portions of each of the side wall samples were then homogenized into one ICS sample and submitted with the floor sample to CFA for dioxin TEQ analysis. Laboratory data were typically provided on a 72-hour turnaround basis. Additional excavation was conducted when the sample results exceeded RALs. If a combined side wall sample for an excavation area exceeded the appropriate RAL, archived samples from each of the individual walls (following ICS protocol) were submitted for analysis to determine where additional excavation would be required.

### 5.2.1 Excavation Area 3

On April 7, 2014, after the roadway to the removal area had been established, excavation activities were initiated at the south portion of EA 3 in cells H and I (see Appendix A, Figure 2). A Komatsu 200 excavator was used by ERRS to remove 1 foot of soil from those cells; the excavated soil was placed into poly-lined, 25-cubic-yard, roll-off boxes. Post-excavation soil samples for dioxin TEQ analysis were collected by START from the floor and side walls of the (combined) excavated cells. Laboratory data confirmed that the RALs for those cells had been met. A representative sample of excavated soil was also

collected for possible laboratory analysis for disposal profiling parameters, if determined necessary by the OSC.

The excavation process continued to the north, as cells F and G were excavated and sampled separately. Post-excavation sampling in cells F and G confirmed that the RALs for those cells had been achieved. The depth of excavation correlated with assessment projections until odorous stained soil containing trash, debris, and metal drum fragments was exposed near the boundary between cells D and E. Excavation was halted, and a soil sample (SFRA-25) was collected to identify potential contaminants other than dioxins. The sample was submitted to Teklab in Collinsville, Illinois, for analysis for Code R parameters and PCBs, and for Toxicity Characteristic Leaching Procedure (TCLP) analyses for metals, pesticides, herbicides, SVOCs, and VOCs. The laboratory data, received on April 28, 2014, did not indicate elevated contaminant concentrations that would result in additional disposal requirements. These data are in Appendix D (provided on CD).

On April 29, 2014, additional excavation was conducted in EA 3 cells D and E, because previous post-excavation sample results remained above the dioxin TEQ RAL. In the central portion of these cells, additional odorous, stained soil and debris were exposed; excavation was again halted, and it was determined that additional disposal profile sampling would occur. On May 6, 2014, three multi-aliquot subsurface soil samples were collected by START and EPA from the stained portion of cells D and E. The samples were collected at depths of 0 to 1, 1 to 2, and 2 to 3 feet bgs. These samples (SFRA-34, 35, and 36) were submitted to Test America Laboratory in Earth City, Missouri, for disposal profiling analyses (VOCs, SVOCs, PCBs, and TCLP metals). The laboratory data, received on May 15, 2014, did not indicate elevated contaminant concentrations that would result in additional disposal requirements. These data are in Appendix D (provided on CD).

On May 7, 2014, excavation activities were conducted in EA 3 cells A, B, and C to 1 foot bgs. No further excavation occurred in EA 3 until May 19, 2014, when approximately 5 feet of dark (stained) soil was excavated from the eastern portion of cell F, along with stained soil in adjacent cell E. On May 21, 2014, excavation in cells D and E continued until the stained soil had been removed (final depth of 5-6 feet bgs). For post-excavation sampling, cells D and E were combined, and cells A, B, and C were combined. Most of EA 3 had been excavated and backfilled by June 9, 2014. Completion of excavation at EA 3 occurred on June 27, 2014, when the final portion of contaminated soil was excavated from cell A. Achievement of RALs was confirmed by post-excavation sample results. All excavated portions of EA 3 were backfilled after the laboratory data had been received. Table 1 below summarizes sampling activities at EA 3.

**TABLE 1**  
**POST-EXCAVATION SAMPLES AT EA 3**  
**ELLISVILLE SITE – WILDWOOD, MISSOURI**

Sample No.	Sample Date	Excavated Cell(s)	Sample Description	Excavation Comment	Dioxin TEQ (ppt)
SFRA-5	4/8/14	H/I	Floor, 1-foot depth	Complete	13.09
SFRA-6	4/8/14	H/I	East, south, and west side walls, 1-foot depth	Complete	4.45
SFRA-10	4/10/14	G	Floor, 1- to 2-foot depth	Complete	6.88
SFRA-11	4/10/14	G	West and east side walls, 1- to 2-foot depth	Additional required	4,953.87
SFRA-17	4/16/14	G	West side wall, 1- to 2-foot depth	Complete	<4.5
SFRA-18	4/16/14	G	East side wall, 1- to 2-foot depth	Additional required	4,844.54
SFRA-21	4/21/14	F	Floor, 2-foot depth	Complete	1,507.99
SFRA-22	4/21/14	F	West and east side walls, 1- to 2-foot depth	Complete	296.93
SFRA-23	4/23/14	D/E	Floor, 1-foot depth	Additional required	4,736.93
SFRA-24	4/23/14	D/E	West and east side walls, 1-foot depth	Complete	424.95
SFRA-28	4/30/14	G	East side wall, 4-foot depth	Complete	1,226.96
SFRA-29	4/30/14	D/E	Floor, 2-foot depth, light color	Complete	12.41
SFRA-30	4/30/14	D/E	Floor, 2-foot depth, dark color	Additional required	11,100.02
SFRA-86	6/6/14	D/E	Floor, 3- to 5-foot depth, dark color	Complete	752.89
SFRA-87	6/6/14	D/E	East side wall, 5-foot depth	Complete	230.43
SFRA-88	6/6/14	B/C	East side wall, 6-foot depth	Complete	144.71
SFRA-89	6/6/14	A	North side wall, 7-foot depth	Complete	616.63
SFRA-123	6/26/14	A/B/C	North, east, and west side walls, top 0 to 12 inches	Complete	417.55
SFRA-124	6/27/14	A/B/C	Floor, 6- to 7-foot depth	Complete	69.79
SFRA-130	7/2/14	A	North and east side walls, 6- to 7-foot depth	Complete	528.06

Notes

ppt      Parts per trillion  
TEQ      Toxic equivalence  
<        Less than

**5.2.2 Excavation Area 2**

On April 24 and 25, 2014, excavation activities were conducted at EA 2 (see Appendix A, Figure 2), where 6 to 12 inches of soil was excavated by use of a Caterpillar 308 excavator. Confirmation samples were collected from the floor of the area (SFRA-26) and from the side walls (SFRA-27). Laboratory data confirmed that the RALs had been achieved. Table 2 summarizes the sampling activities at EA 2.

**TABLE 2**

**POST-EXCAVATION SAMPLES AT EA 2  
ELLISVILLE SITE – WILDWOOD, MISSOURI**

<b>Sample No.</b>	<b>Date</b>	<b>Sample Description</b>	<b>Excavation Comment</b>	<b>Dioxin TEQ (ppt)</b>
SFRA-26	4/28/14	Floor, 6- to 12-inch depth	Complete	597.30
SFRA-27	4/28/14	All side walls, 6- to 12-inch depth	Complete	184.69

Notes:

ppt      Parts per trillion  
TEQ      Toxic equivalence

**5.2.3 Excavation Area 1**

Additional roadway construction and tree clearing were required before excavation at EA 1 to allow movement of roll-off boxes to the area. On May 1 and 2, 2014, the contaminated area that had been identified during assessment activities was excavated to 3 feet bgs. Post-excavation sampling results exceeded the RALs, so additional excavation was required. On May 16, 2014, additional soil was excavated from EA 1; the area was expanded in all directions, and an additional foot was excavated from the floor of the area. Laboratory results from post-excavation samples collected from the floor and walls (SFRA-46 through -51) were received on May 23, 2014, and all results still exceeded the RALs.

Excavation activities at EA 1 resumed June 11, 2014. At the southeast corner of EA 1, approximately 8 feet of debris and stained soil was excavated before the RAL was achieved (see Appendix B). A composite sample (SFRA-128) was collected from two roll-off boxes containing soil excavated from the southeast portion of EA 1. This sample was submitted to Test America in Earth City, Missouri, for analysis for PCBs and SVOCs. The boxes were held until the laboratory results confirmed that concentrations of those analytes were not elevated.

In the northwest portion of EA 1, no debris or discoloration was observed, but additional excavation was still required before the RALs were reached. The north wall of EA 1 was excavated to the level of the adjoining creek bed, approximately 4.5 feet below the initial surface level of EA 1. Samples SFRA-157 and -158 were collected from the north floor at the level of the creek. Excavation of EA 1 was completed on July 21, 2014, and final confirmation samples were collected on July 23, 2014. Large gabion rock (3 to 5 inches) was placed on the slope between the creek and EA 1 (after backfilling) to stabilize the bank (see Appendix B). Table 3 summarizes results of post-excavation sampling at EA 1.

TABLE 3

POST-EXCAVATION SAMPLES AT EA 1  
ELLISVILLE SITE – WILDWOOD, MISSOURI

Sample No.	Date	Sample Description	Excavation Comment	Dioxin TEQ (ppt)
SFRA-31	5/2/14	Floor, 3-foot depth	Additional required	20,387.39
SFRA-32	5/2/14	All side walls, 3-foot depth	Additional required	3,210.59
SFRA-37	5/8/14	West side wall, 0- to 4-foot depth	Additional required	6,705.19
SFRA-38	5/8/14	South side wall, 0- to 4-foot depth	Additional required	2,575.89
SFRA-39	5/8/14	East and north side walls, 0- to 6-foot depth	Additional required	3,219.04
SFRA-46	5/16/14	East half of floor, 4-foot depth	Additional required	30,753.48
SFRA-47	5/16/14	West half of floor, 4-foot depth	Additional required	4,316.88
SFRA-48	5/16/14	West side wall, 0- to 4-foot depth	Additional required	7,336.55
SFRA-49	5/16/14	South side wall, 0- to 4-foot depth	Complete after sample SFRA-159	1,420.36
SFRA-50	5/16/14	East side wall, 0- to 4-foot depth	Additional required	2,677.48
SFRA-51	5/16/14	North side wall, 0- to 4-foot depth	Additional required	4,399.71
SFRA-105	6/20/14	West half of floor, 4- to 6-foot depth	Complete	182.36
SFRA-106	6/20/14	All side walls in the northwest corner, 5- to 6-foot depth	Additional required	13,949.15
SFRA-107	6/20/14	Southwest corner side walls, 4- to 6-foot depth	Complete after samples SFRA-159 and -161	1,040.42
SFRA-113	6/23/14	East half of floor, 5- to 8-foot depth	Complete	181.03
SFRA-114	6/23/14	East side wall, 0- to 8-foot depth	Complete	355.94
SFRA-115	6/24/14	Southeast corner floor, 6- to 8-foot depth	Complete	416.97
SFRA-116	6/24/14	West side wall of the southeast corner, 0- to 6-foot depth	Complete after sample SFRA-125	868.81
SFRA-117	6/24/14	South side wall of the southeast corner, 0- to 6-foot depth	Complete after samples SFRA-134 and -135	1,199.16
SFRA-118	6/24/14	East side wall of the southeast corner, 0- to 8-foot depth	Complete after samples SFRA-134 and -135	1,160.06
SFRA-125	6/30/14	West side wall of the southeast corner, 0- to 12-inch depth	Complete	500.12
SFRA-126	6/30/14	East side wall, 0- to 12-inch depth	Additional required	924.55
SFRA-131	7/2/14	North side wall, 4- to 5-foot depth	Additional required	10,537.08
SFRA-132	7/2/14	Northwest corner side walls, 4-foot depth	Additional required	4,865.26
SFRA-134	7/8/14	Floor of all side walls of the southeast corner, at a depth of 12 inches	Complete	846.71
SFRA-135	7/8/14	Southeast corner side walls, 0- to 12-inch depth	Complete	364.33
SFRA-138	7/10/14	Northwest corner floor, 4-foot depth	Complete	745.36
SFRA-139	7/10/14	South side wall of the northwest corner, 0- to 4-foot depth	Additional required	8,395.30
SFRA-140	7/10/14	West side wall of the northwest corner, 0- to 4-foot depth	Additional required	8,251.49
SFRA-141	7/10/14	North side wall of the northwest corner, 0- to 4-foot depth	Additional required	3,470.36

TABLE 3 (Continued)

POST-EXCAVATION SAMPLES AT EA 1  
ELLISVILLE SITE – WILDWOOD, MISSOURI

Sample No.	Date	Sample Description	Excavation Comment	Dioxin TEQ (ppt)
SFRA-147	7/17/14	North and east side walls of the northwest corner, 0- to 4-foot depth	Complete	339.07
SFRA-157	7/22/14	North floor, east portion (creek level)	Nothing more excavated	7,172.86
SFRA-158	7/22/14	North floor, west portion (creek level)	Nothing more excavated	3,383.55
SFRA-159	7/22/14	South side wall of the northwest corner, 0- to 12-inch depth	Complete	289.59
SFRA-160	7/23/14	West side wall of the northwest corner, 1- to 4-foot depth	Complete	2,371.78
SFRA-161	7/23/14	West side wall of the northwest corner, 0- to 12-inch depth	Complete	347.88

Notes:

ppt      Parts per trillion  
TEQ      Toxic equivalence

Analytical data packages received from CFA were forwarded to Deanna Crumbling, sampling statistician at EPA Headquarters (HQ) in Washington, D.C., for calculation of Kaplan-Meier TEQ values. These TEQ values are listed in tables in Appendix E (provided on CD).

**5.3 SAMPLING FOR DISPOSAL COORDINATION**

As soil was excavated, it was loaded directly into poly-lined, 25-cubic-yard, roll-off boxes and sampled for laboratory analysis for dioxin. Initially, samples from three roll-off boxes were combined into one sample for analysis. In addition, soil from each roll-off box was held and analyzed individually if the combined dioxin concentration exceeded 10,000 ppt (10 ppb) —the maximum concentration that could be accepted by the Lone Mountain Landfill in Waynoka, Oklahoma. However, because of the time required to receive follow-up data from samples from individual roll-off boxes if needed, combined roll-off box sampling was later discontinued. The filled roll-off boxes were staged on site until all necessary laboratory results for dioxin were received, allowing coordination of disposal arrangements. Excavated dioxin-contaminated material found to contain concentrations greater than the alternative LDR treatment standard (10 ppb) was trucked to the Recupere Sol, Inc., facility in Saint-Ambroise, Quebec, Canada, for thermal treatment prior to disposal. During the project, 101 roll-off boxes were shipped off site for disposal. Seventeen boxes, containing 267.06 tons of dioxin-contaminated soil, were shipped to the Recupere Sol, Inc., facility in Canada for incineration. The remaining 84 boxes, containing 1,277.58 tons of dioxin-contaminated soil, were trucked to the Lone Mountain Landfill in Oklahoma for disposal. Table 4 summarizes results from samples of excavated soils in the roll-off boxes.

TABLE 4

**ROLL-OFF BOX SAMPLES  
ELLISVILLE SITE – WILDWOOD, MISSOURI**

Sample No.	Excavation Area	Roll-off Box IDs	Dioxin TEQ (ppt)
SFRA-7	EA 3, cells H/I	4, 5, and 6	1,084.49
SFRA-8	EA 3, cell G	7, 8, and 9	10,333.60
SFRA-9	EA 3, cell G	10, 11, and 12	3,592.32
SFRA-12	EA 3, cell G	13, 14, and 15	1,085.86
SFRA-13	EA 3, cell G	16, 17, and 18	3,092.32
SFRA-14	EA 3, cell G	7	5,681.17
SFRA-15	EA 3, cell G	8	17,455.32
SFRA-16	EA 3, cell G	9	3,720.36
SFRA-19	EA 3, cell G	19, 20, and 21	4,556.90
SFRA-20	EA 3, cell F	22, 23, and 24	5,870.79
SFRA-33	EA 1	39	24,434.89
SFRA-41	EA 1	41	13,355.69
SFRA-42	EA 1	42	6,189.20
SFRA-43	EA 1	44	20,743.61
SFRA-44	EA 1	45	14,092.96
SFRA-45	EA 1	46	10,626.04
SFRA-52	EA 3, cell F (dark)	47	2,413.04
SFRA-53	EA 3, cell F (dark)	48	42,642.51
SFRA-54	EA 3, cell E (dark)	49	19,731.13
SFRA-55	EA 1	38	13,865.29
SFRA-56	EA 3, cell E (dark)	50	15,742.86
SFRA-57	EA 3, cell E (dark)	51	360.06
SFRA-58	EA 3, cell E (dark)	52	26,048.09
SFRA-59	EA 3, cell E (dark)	53	3,907.01
SFRA-60	EA 3, cell E (dark)	54	5,548.15
SFRA-61	EA 3, cells D/E	55	2,504.09
SFRA-62	EA 3, cells D/E	56	1,476.54
SFRA-73	EA 3, cells D/E	57	3,121.50
SFRA-74	EA 3, cells D/E	58	12,056.80
SFRA-75	EA 3, cells D/E	59	4,735.13
SFRA-76	EA 3, cell C	60	949.66
SFRA-77	EA 3, cell C	61	1,040.53
SFRA-78	EA 3, cell C	62	2,469.24
SFRA-79	EA 3, cell C	63	1,518.06
SFRA-80	EA 3, cells A/B	64	757.17
SFRA-81	EA 3, cells A/B	65	247.25
SFRA-82	EA 3, cells A/B	66	702.66
SFRA-83	EA 3, cells A/B	67	914.29
SFRA-84	EA 3, cells A/B	68	445.52
SFRA-85	EA 3, cells A/B	69	1,272.33
SFRA-96	EA 3, cells A/B	70	980.29
SFRA-97	EA 3, cells A/B	71	151.62

TABLE 4 (Continued)

**ROLL-OFF BOX SAMPLES  
ELLISVILLE SITE – WILDWOOD, MISSOURI**

Sample No.	Excavation Area	Roll-off Box IDs	Dioxin TEQ (ppt)
SFRA-98	EA 1	72	3,223.35
SFRA-99	EA 1	73	3,963.41
SFRA-100	EA 1	74	13,840.16
SFRA-101	EA 1	75	3,050.08
SFRA-102	EA 1	76	3,952.01
SFRA-103	EA 1	77	3,108.85
SFRA-104	EA 1	78	615.78
SFRA-108	EA 1	79	962.47
SFRA-109	EA 1	80	14,230.69
SFRA-110	EA 1	81	2,811.13
SFRA-111	EA 1	82	1,556.76
SFRA-112	EA 1	83	7,721.91
SFRA-119	EA 1	84	597.46
SFRA-120	EA 1	85	677.38
SFRA-121	EA 1	86	1,577.75
SFRA-122	EA 3, cells A/B	87	257.91
SFRA-127	EA 3, cells A/B	88	164.00
SFRA-128	EA 1	87 and 88	PCBs and SVOCs only
SFRA-129	EA 3, cell A	89	386.18
SFRA-133	EA 1	90	5,750.93
SFRA-136	EA 1	91	320.81
SFRA-137	EA 1	92	272.42
SFRA-142	EA 1	93	4,10273
SFRA-143	EA 1, northwest corner	94	14,965.92
SFRA-144	EA 1, northwest corner	95	3,117.52
SFRA-145	EA 1, northwest corner	96	5,716.19
SFRA-146	EA 1, north wall	97	3,592.18
SFRA-148	EA 1, north wall	98	24,473.49
SFRA-149	EA 1, north wall	99	11,324.35
SFRA-150	EA 1, north wall	100	1,786.36
SFRA-162	EA 1, northwest corner	101	1,121.32

## Notes:

PCB Polychlorinated biphenyl  
ppt Parts per trillion  
SVOC Semivolatile organic compound  
TEQ Toxic equivalence

## 5.4 ADDITIONAL SOIL SAMPLING

Additional soil sampling activities occurred during the RA to confirm that no additional dioxin-contaminated areas would have to be addressed. The area between EA 3 and EA 2 was divided into two subareas: the south half was identified as EA 4, and the north half was designated as EA 5. The east boundary of these areas was the horse arena, and the west boundary was the roadway next to the west side of EA 3 and EA 2 (see Appendix A, Figure 3). Previous surface soil sampling had not identified elevated concentrations of dioxin within these areas.

On May 29, 2014, EPA Geoprobe® direct push technology (DPT) equipment was used by EPA and START to collect subsurface soil samples (SFRA-63 through -72) within EA 4 and EA 5, as well as within EA 2 (see Appendix C [on CD]). Six, three-aliquot samples were collected within EA 4; three samples were collected at 0 to 2 feet bgs, and three were collected at 2 to 4 feet bgs. Each sample represented one-third of the area at the sampled depth. At EA 5, two composite samples were collected within the central third of the area. The sample depths were the same as those at EA 4. Additionally, two composite samples were collected in a ditch along the western edge of EA 2 at 2 to 4 feet bgs. EA 2 had already been excavated to 1 foot bgs and backfilled. No dioxin concentrations exceeding the RAL were identified in any of these samples; therefore, no further excavation occurred. Table 5 includes a summary of these sample results.

On June 6, 2014, the EPA Geoprobe® DPT equipment was used by EPA and START to collect subsurface soil samples to further define the extent and estimated volume of contaminated soil adjacent to the southeast corner of EA 1. At one location southeast of EA 1, three grab samples were collected (SFRA-93, -94, and -95): one at 0 to 2 feet bgs, a second at 2 to 4 feet bgs, and a third at 4 to 6 feet bgs. Results from these samples indicated that at least 6 feet of soil would have to be excavated from EA 1 to achieve the RAL (completed later in June 2014).

A retention pond was constructed to hold rainwater so that excavation could continue after rain events. Previous surface soil sampling of this retention pond area, between EA 2 and EA 6, had not identified elevated dioxin concentrations. Soil was pushed out to form a basin for the retention pond, with the soil creating a 3-foot-high berm. A nine-aliquot surface soil sample was collected from the floor of the pond; the dioxin TEQ result was less than the RAL. When rainwater collected in EA 3, it was pumped into the retention pond, where it infiltrated and evaporated.

EA 6 was identified as the area between the retention pond and EA 1 (see Appendix A, Figure 3). Two three-aliquot soil samples were collected from a ditch running through the middle of this area at 0 to

2 feet bgs (SFRA-90) and at 2 to 4 feet bgs (SFRA-91). Dioxin TEQs in these samples did not exceed RALs. No removal activities were subsequently required at EA 6. These laboratory results are summarized in Table 5, and the complete laboratory data are in Appendix D (provided on CD). The retention pond area was re-graded, leveled, and seeded, as were the other excavated and backfilled areas.

**TABLE 5**  
**ADDITIONAL SOIL SAMPLES**  
**ELLISVILLE SITE – WILDWOOD, MISSOURI**

Sample No.	Date	Sampled Area	Sample Depth	Comment	Dioxin TEQ (ppt)
SFRA-40	5/15/14	Retention pond floor before use	0 to 2 inches	No excavation required	216.90
SFRA-63	5/29/14	EA 4, cell A	2 to 4 feet	No excavation required	5.41
SFRA-64	5/29/14	EA 4, cell A	2 to 4 feet	No excavation required	8.91
SFRA-65	5/29/14	EA 4, cell C	2 to 4 feet	No excavation required	44.71
SFRA-66	5/29/14	EA 4, cell C	0 to 2 feet	No excavation required	251.19
SFRA-67	5/29/14	EA 4, cell B	2 to 4 feet	No excavation required	<3.2
SFRA-68	5/29/14	EA 4, cell B	0 to 2 feet	No excavation required	148.94
SFRA-69	5/29/14	EA 5, cell B	2 to 4 feet	No excavation required	<2
SFRA-70	5/29/14	EA 5, cell B	0 to 2 feet	No excavation required	96.26
SFRA-71	5/29/14	EA 2, cell D	2 to 4 feet	No excavation required	<5
SFRA-72	5/29/14	EA 2, cell C	2 to 4 feet	No excavation required	874.17
SFRA-90	6/6/14	EA 6, cell B	0 to 2 feet	No excavation required	603.35
SFRA-91	6/6/14	EA 6, cell B	2 to 4 feet	No excavation required	811.14
SFRA-92	6/6/14	East of retention pond	2 to 4 feet	No excavation required	5.43
SFRA-93	6/6/14	EA 1, southeast corner	0 to 2 feet	Excavation required	919.68
SFRA-94	6/6/14	EA 1, southeast corner	2 to 4 feet	Excavation required	2,995.55
SFRA-95	6/6/14	EA 1, southeast corner	4 to 6 feet	Excavation required	16,343.59
SFRA-156	7/22/14	Retention pond floor after use	0 to 2 inches	No excavation required	102.82

Notes:

ppt      Parts per trillion  
TEQ      Toxic equivalence

## 5.5 AIR MONITORING

During soil excavation activities, real-time air monitoring was performed by START. Two monitoring stations were established—one upwind and one downwind of the excavation area. At each station, an MIE DataRAM 4™ aerosol monitor was used to measure concentrations of airborne particulate matter, and a MultiRAE Plus multi-gas monitor with a built-in PID was used to monitor for VOCs. The

DataRAM 4™ was fitted with a size-selective impactor head to monitor only particulate matter 10 micrometers or less in size (PM-10). Data were logged by each unit and later downloaded and tabulated. No concentrations that would pose health threats to site workers or nearby residents were recorded. The air monitoring data are in Appendix F (provided on CD).

## **5.6 SITE SURVEY AND CLOSURE OF STAGING AREAS AND ROADWAY**

START collected five multi-aliquot surface samples from the roadway and staging areas for dioxin TEQ analysis on July 22, 2014. The samples (SFRA-151 through -155) were collected to confirm that contaminated soil had not been transferred to the road and staging areas during the removal process. The road was divided into three sections for sampling. The northern third—the section of the road adjacent to the excavation areas—was found to contain a dioxin TEQ value of 17.07 ppt (SFRA-151). The samples from the central and southern sections (SFRA-153 and -154) were found to contain dioxin TEQ results less than 1.93 ppt. Two staging areas were sampled: (1) the north staging area, just south of the excavation areas, and (2) the south staging area, near the EPA Command Post and site entrance. The north staging area sample (SFRA-152) contained a dioxin TEQ value of 1.9 ppt, and the dioxin TEQ value for the southern staging area sample (SFRA-155) was 1.46 ppt.

After discussions among EPA, the developer, and the property owner, it was determined that the rock that had been used on the roadway and staging areas for the RA would be removed from the site. The rock sample results obtained in July 2014 were submitted to the receiving facility for approval. The rock was removed and transported to the Champ Landfill in Maryland Heights, Missouri, in late October 2014. Restoration work was completed on October 31, 2014.

On August 1, 2014, The Sterling Company (Sterling) from St. Louis, Missouri, conducted land survey activities at the site. The excavation areas, the roadway, and the Bliss-Ellisville site property line were surveyed. The final survey information appears on Figures 2 and 3 in Appendix A.

## 6.0 LABORATORY DATA REVIEW

The EPA Region 7 Environmental Services Assistance Team (ESAT) was requested to review the CFA data packages. Summary reports indicating that overall data quality and completeness were acceptable are in Appendix D (provided on CD). The final data packages from CFA were sent to Deana Crumbling, sampling statistician at EPA HQ in Washington, D.C., for review and calculation of Kaplan-Meier dioxin TEQ concentrations. Those calculated values were used in the tables included in this report.

## 7.0 SUMMARY

Tetra Tech START was tasked by the EPA Region 7 Superfund Division to assist with an RA at the Ellisville site in Wildwood, Missouri. Elevated dioxin concentrations had been identified at three areas within a proposed residential development area (Strecker Forest) during previous assessments. These soils were excavated during the RA for off-site disposal. For this RA, the site-specific RALs for dioxin TEQ levels were as follows: 820 ppt in surface soil (less than 12 inches bgs); 2,460 ppt in soil at depths greater than 12 inches bgs.

Specific elements of this task included (1) collection of post-excavation soil samples to confirm that site-specific RALs had been met, (2) sampling of excavated soils for disposal profiling analyses, (3) real-time air monitoring during soil excavation, and (4) soil sampling in the central and northern portions of the site to better define the extent of contamination. START also assisted with analytical services procurement, sample management, documentation of removal activities, and preparation of detailed maps and diagrams depicting excavated and sampled areas.

Nineteen pre-removal site characterization samples were submitted for TEQ analysis (including samples collected at the roadway, staging areas, and retention pond area). START also collected 63 post-excavation samples to confirm that the site-specific RALs had been met. From the roll-off boxes containing excavated soil, 72 samples were submitted for dioxin TEQ analysis. Another seven samples were submitted for laboratory analysis for waste profiling purposes. Two of the samples (roadway rock) collected during site activities were not submitted to the laboratory for analysis, but were screened by START for metals and VOCs by use of an XRF and PID, respectively.

Removal activities began on March 24, 2014, and excavation was completed on July 21, 2014. During the project, 101 roll-off boxes were filled and shipped off site for disposal. Seventeen boxes, containing 267.06 tons of dioxin-contaminated soil, were shipped to Canada for incineration. The remaining 84 boxes, containing 1,277.58 tons of dioxin-contaminated soil, were trucked to a RCRA-permitted landfill in Oklahoma for disposal.

After the excavated areas (including the retention pond) had been backfilled with clean soil and graded, they were seeded and mulched. Drainage pathways were covered with rock. Finally, rock was removed from the roadway used during the RA. The roadway that was in the work area was covered with 3 to 6 inches of backfill soil, seeded, and mulched. The remainder of the road was seeded. Site restoration activities were completed October 31, 2014.

## 8.0 REFERENCES

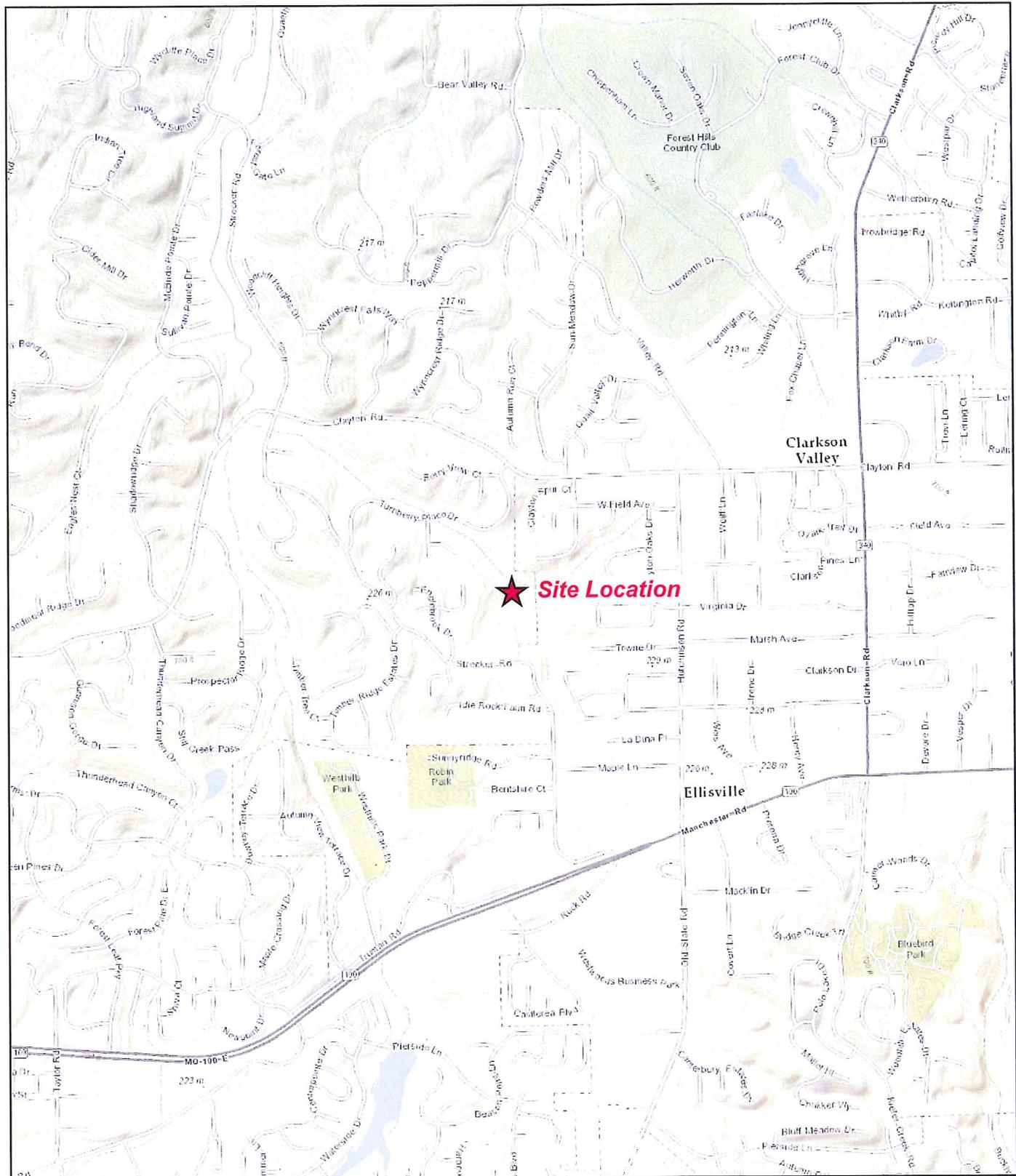
Tetra Tech EM Inc. 2012. *Site Reassessment Report for an Expanded Site Review, Proposed Strecker Forest Development Site, Wildwood, Missouri*. Superfund Technical Assessment and Response Team (START) Contract EP-S7-06-01, Task Order No. 0002.058. June 13.

Tetra Tech, Inc. (Tetra Tech). 2014. *Removal Site Evaluation Report, Bliss-Ellisville Site – Strecker Forest Subsite, Wildwood, Missouri*. Superfund Technical Assessment and Response Team (START) Contract EP-S7-06-01, Task Order No. 0014. April 24.

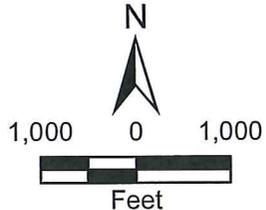
U.S. Environmental Protection Agency (EPA). 2013. Action Memorandum for a Removal Action at the Ellisville Site, Wildwood, Missouri. September 26.

**APPENDIX A**

**FIGURES**



**Site Location**



<p>Ellisville Site Wildwood, Missouri</p>	
<p><b>Figure 1</b> Site Location Map</p>	
Date: 10/29/2014	Drawn By: Gustavo Orozco
Project No: 103X025140048.000	

X:\103X025140048\Project\mxd\Figure1.mxd

Source: ESRI Basemap, Topographic, 2013

- Legend**
- Soil boring - below action level
  - Soil boring - above action level
  - Decision / sampling unit boundary
  - Excavation area
  - Excavation sub-area
- Pre-excavation sample results:**
- 50 - 820 ppt
  - > 820 ppt
  - NA Not applicable
  - NS Not sampled
  - ppt Parts per trillion
  - TEQ Toxic equivalence (dioxin) in ppt

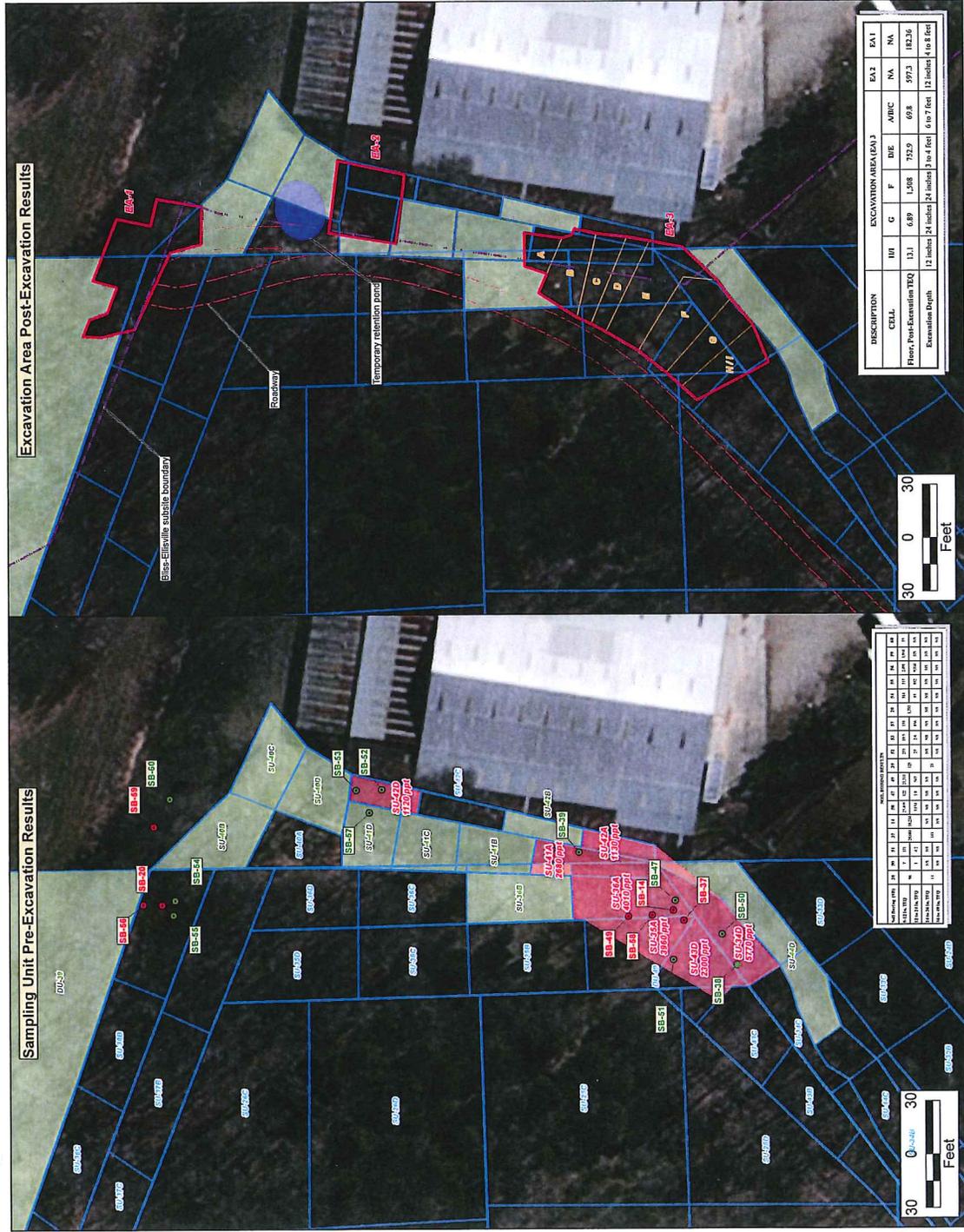
**Ellisville Site  
Wildwood, Missouri**

**Figure 2  
Removal Activity Map**

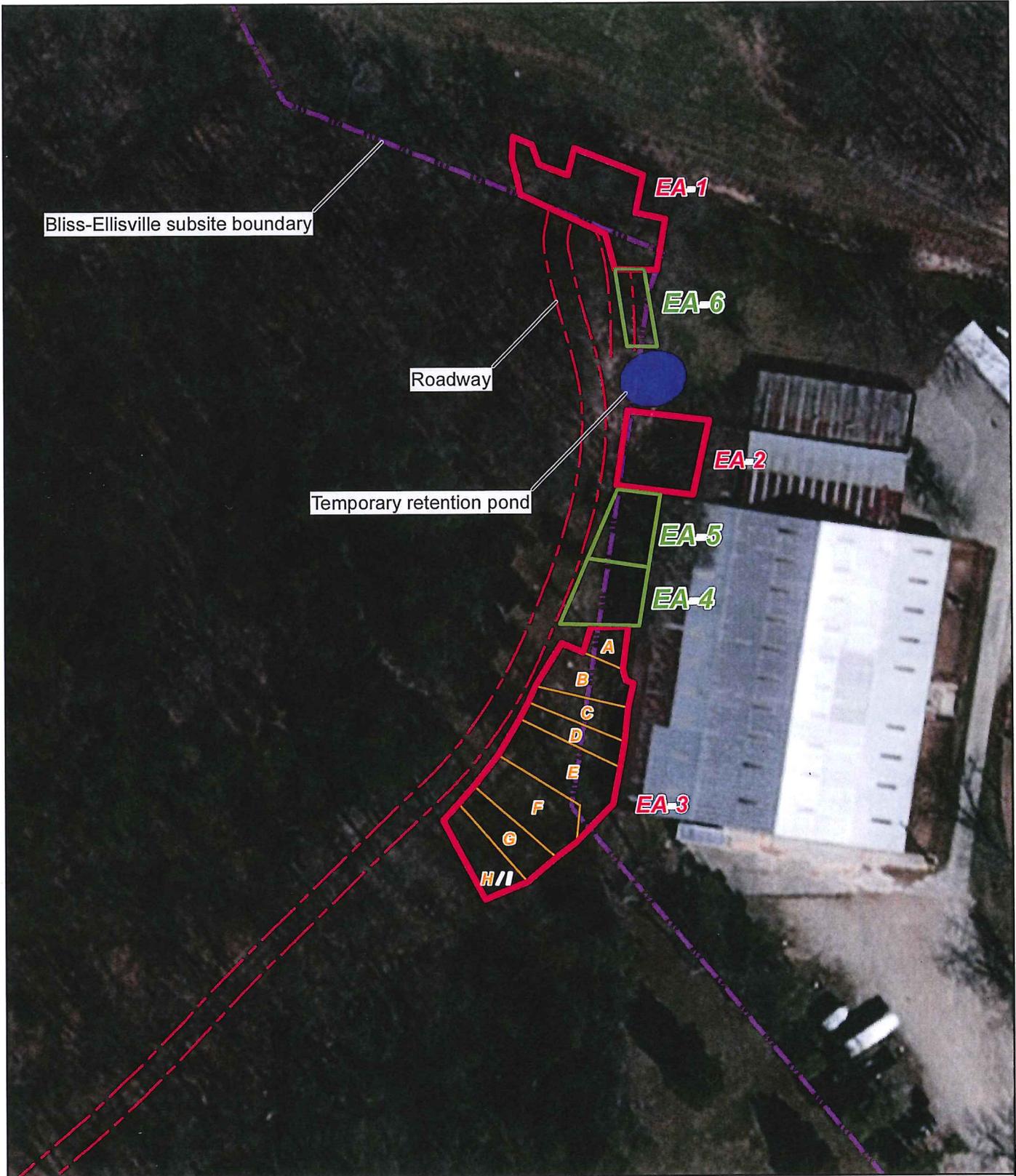


The Environmental Protection Agency does not guarantee the accuracy, completeness, or timeliness of the information shown on this map. Users are advised to verify the information shown on this map for use in their own projects.

Date: 1/10/2014    Drawn By: Cole Wertz    Path: X:\10102014\10102014\10102014.dwg



Source: EPA Region 7, Smecker Forest GIS Data, 2012-2013; ESRI Basemap, Imagery, 2013; ESRI Basemap, National Geographic, 2012; ESRI Basemap, Topographic, 2013.



Bliss-Ellisville subsite boundary

Roadway

Temporary retention pond

EA-1

EA-6

EA-2

EA-5

EA-4

EA-3

A

B

C

D

E

F

G

H/I

Legend

- Exploratory area
- Excavation area
- Excavation sub-area



35 0 35



Feet

Ellisville Site  
Wildwood, Missouri

**Figure 3**  
Exploratory Sampling Locations



**APPENDIX B**  
**PHOTOGRAPHIC DOCUMENTATION**

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Northeast	DESCRIPTION	This photograph shows the site entrance driveway and upper support zone prior to brush clearing in preparation for removal activities.	1
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Dave Kinroth	3/24/14



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Northeast	DESCRIPTION	This photograph shows the site entrance driveway and upper support zone area after brush clearing in preparation for removal activities.	2
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Dave Kinroth	3/25/14

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Northwest	DESCRIPTION	This photograph shows Emergency and Rapid Response Services (ERRS) personnel grinding tree stumps in the upper support zone area in preparation for removal activities.	3
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/25/14
	PHOTOGRAPHER	Dave Kinroth	



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: North	DESCRIPTION	This photograph shows gabian stone being delivered to prepare site access roads and support zones for the removal action.	4
	CLIENT	Environmental Protection Agency - Region 7	DATE 3/26/14
	PHOTOGRAPHER	Dave Kinroth	

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: North	DESCRIPTION	This photograph shows ERRS personnel laying base fabric in the area where gabian stone would be placed for a roadbed .	5
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Dave Kinroth	3/26/14



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: South	DESCRIPTION	This photograph shows gabian stone on the haul road at the site.	6
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Dave Kinroth	3/28/14

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: North	DESCRIPTION	This photograph shows the lower support zone and haul road (near completion) to be used for the removal action.	7
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Dave Kinroth	3/28/14



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: East/Northeast	DESCRIPTION	This photograph shows ERRS personnel beginning excavation of dioxin-contaminated soil at the south end of Excavation Area (EA) 3.	8
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Dave Kinroth	4/7/14

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: East	DESCRIPTION	This photograph shows ERRS loading dioxin-contaminated soil into a roll-off box for transport to a disposal facility.	9
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Dave Kinroth	4/7/14



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Southeast	DESCRIPTION	This photograph shows an air monitoring station operated by Superfund Technical Assessment and Response Team (START) personnel during soil excavation activities.	10
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Dave Kinroth	4/7/14

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Southeast	DESCRIPTION	This photograph shows the south end of EA 3 as soil excavation was nearing completion.	11
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Dave Kinroth	4/8/14



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: East	DESCRIPTION	This photograph shows a roll-off box with excavated dioxin-contaminated soil being moved for temporary staging on site.	12
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Dave Kinroth	4/7/14

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Northwest	DESCRIPTION	This photograph shows a roll-off box with excavated dioxin-contaminated soil being removed for transport to an off-site disposal facility.	13
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/22/14
	PHOTOGRAPHER	Dave Kinroth	



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Northeast	DESCRIPTION	This photograph shows an overview of EA 3 with excavation in progress.	14
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/23/14
	PHOTOGRAPHER	Dave Kinroth	

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Northeast	DESCRIPTION	This photograph shows excavation at EA 2.	15
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Rick Claytor	4/25/14



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: East	DESCRIPTION	This photograph shows dark-stained soil encountered during excavation at EA 3 (cells D and E).	16
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Rick Claytor	4/30/14

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: East	DESCRIPTION	This photograph shows sampling of stained soil at EA 3.	17
	CLIENT	Environmental Protection Agency - Region 7	DATE 5/6/14
	PHOTOGRAPHER	Dave Kinroth	



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Southeast	DESCRIPTION	This photograph shows the southeast portion of EA 1 after excavation to approximately 8 feet below ground surface (bgs) had been completed.	18
	CLIENT	Environmental Protection Agency - Region 7	DATE 6/24/14
	PHOTOGRAPHER	Rick Claytor	

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Northeast	DESCRIPTION	This photograph shows ERRS excavating a vein of dark-stained soil at EA 3.	19
	CLIENT	Environmental Protection Agency - Region 7	DATE 6/28/14
	PHOTOGRAPHER	Rick Claytor	



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Northwest	DESCRIPTION	This photograph shows preparation for backfilling at EA 1, along the tributary to Caulks Creek on the north perimeter of the site.	20
	CLIENT	Environmental Protection Agency - Region 7	DATE 7/10/14
	PHOTOGRAPHER	Rick Claytor	

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Southeast	DESCRIPTION	This photograph shows EA 3 after excavation had been completed, and the area had been backfilled with clean topsoil.	21
	CLIENT	Environmental Protection Agency - Region 7	DATE 7/14/14
	PHOTOGRAPHER	Rick Claytor	



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Southeast	DESCRIPTION	This photograph shows EA 2 after excavation had been completed, and the area had been backfilled with clean topsoil.	22
	CLIENT	Environmental Protection Agency - Region 7	DATE 5/5/14
	PHOTOGRAPHER	Rick Claytor	

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: South	DESCRIPTION	This photograph shows EA 1 after excavation had been completed, the area had been backfilled with clean topsoil, and rip-rap had been placed along the creek bank.	23
	CLIENT	Environmental Protection Agency - Region 7	DATE 7/30/14
	PHOTOGRAPHER	Rick Claytor	



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: Northeast	DESCRIPTION	This photograph shows ERRS applying straw at EA 3 after the area had been backfilled with clean topsoil and seeded.	24
	CLIENT	Environmental Protection Agency - Region 7	DATE 8/1/14
	PHOTOGRAPHER	Rick Claytor	

**Ellisville Site Removal Action  
Wildwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: North	DESCRIPTION	This photograph shows EA 1 after excavation had been completed, and seed and straw had been applied to clean topsoil backfill.	25
	CLIENT	Environmental Protection Agency - Region 7	DATE 8/1/14
	PHOTOGRAPHER	Rick Claytor	



TETRA TECH PROJECT NO. X9025.14.0048.000 DIRECTION: South	DESCRIPTION	This photograph shows gabian stone taken from the site haul road to line drainage pathways for erosion control at EA 3.	26
	CLIENT	Environmental Protection Agency - Region 7	DATE 8/1/14
	PHOTOGRAPHER	Rick Claytor	

**APPENDIX C  
FIELD SHEETS (CD)**

**APPENDIX D  
CHAIN-OF-CUSTODY RECORDS AND LABORATORY DATA (CD)**

**APPENDIX E  
KM TEQ VALUES (CD)**

**APPENDIX F  
AIR MONITORING RECORDS (CD)**

**AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD AUTHORIZING AN AMENDMENT TO PLANNED RESIDENTIAL DEVELOPMENT OVERLAY DISTRICT ORDINANCE #1189 TO ADDRESS THE EXTENT OF PRESERVATION REQUIRED BY THE NATURAL RESOURCE PROTECTION STANDARDS BY ALLOWING A REDUCTION IN THE AMOUNT DUE TO A CALCULATION ERROR THAT WAS MADE, WHEN THIS TWENTY-THREE (23) LOT RESIDENTIAL SUBDIVISION WAS APPROVED. (Ward Two)**

**WHEREAS**, the City Council approved a Planned Residential Development Overlay District in the R-1A 22,000 square foot Residence District for a 18.3 acre tract of land that allowed its development with twenty-three (23), single family dwellings on individual lots that were greater than 13,5000 square feet in size; and

**WHEREAS**, the development of this residential subdivision was required to meet the Natural Resource Protection Standards of the City's Subdivision and Development Regulations, which indicated that approximately eight (8) acres of the site could be used for development purposes, such as building sites, roadways, other infrastructure improvements, and utility installations; and

**WHEREAS**, the amount of required preservation on this 18.3 site was calculated originally at over twelve (12) acres in size, which when combined with the area of the property allowed to be disturbed, exceeded the overall acreage of the tract of land; and

**WHEREAS**, this calculation error had to be addressed by reducing the amount of preservation area to the difference between the permitted eight (8) acres of disturbance and the overall size of the tract of land; and

**WHEREAS**, the change in the amount of required preservation area on this 18.3 acres was from twelve (12) acres to ten (10) acres, which is consistent with the overall size of the tract of land; and

**WHEREAS**, the change in the preservation amounts associated with this site does not increase the amount of overall site disturbance, but addresses the calculation error made by the Department of Planning, when it prepared the recommendation regarding this change in zoning and application of the Planned Residential Development Overlay District upon the subject site; and

**WHEREAS**, the Planning and Zoning Commission considered this request at its June 5, 2006 Executive Meeting and recommended approval of the amendment of the Planned Residential Development Overlay District Ordinance to accommodate this change due to the amount of preserved acres remained unaltered; and

**WHEREAS**, the City Council held a public hearing on June 26, 2006 and heard comments from all appropriate parties and endorsed the preparation of legislation to address this change in the preservation amount for this residential site relative to the Natural Resource Protection Standards, which was introduced on July 10, 2006; and

**WHEREAS**, as part of this consideration, the Planning and Zoning Commission, along with the City Council, chose not to apply the Public Space Ordinance requirements, nor reduce the density of the development due to the change in the 'Suburban' Residential Area that occurred with the 2006 Update of Master Plan, since the need for the change in the site-specific ordinance was prompted by the error on the Department's part; and

**WHEREAS**, the City of Wildwood, on September 1, 1995, adopted specific ordinances, codes, and regulations enabling it to administer its zoning and subdivision authorities to benefit the health, safety, and general welfare of its residents.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AS FOLLOWS:**

**Section One.** The City of Wildwood Zoning Codes and Official Zoning District Maps, which are made a part hereof, are hereby amended by enacting a change in Planned Residential Development Overlay District Ordinance #1189, as set forth in this ordinance for the following described land:

A tract of land situated partly in the Southeast 1/4 of the Northeast 1/4 of Section 31, and partly in the Southwest 1/4 of the Northwest 1/4 of Section 32, Township 45 North, Range 4 East, St. Louis County, Missouri and described as follows:

Beginning at an old stone in the center line of Section 31 on the line between Sections 31 and 32; thence along the East-West center line of Section 31, South 89 degrees 42'00" West, a distance of 327.50 feet to the Southwest corner of property described in deed to Patricia V. and Gerald W. Primm, Trustees U/I, recorded in Book 8813, Page 2172, thence North, a distance of 20.00 feet to the North line of Strecker Road, 40 feet wide, thence along said North line of Strecker Road South 89 degrees 36'21" West, a distance of 208.71 feet to the East line of Strecker Farms Plat 1, per Plat Book 331, Pages 91 and 92; thence along East line of said Strecker Farms Plat 1, the following: North a distance of 625.62 feet, North 89 degrees 36'21" East, a distance of 208.71 feet and North a distance of 686.36 feet to the South line of Turnberry Place Plat 2, per Plat Book 286, Page 88; thence along the South line of said Turnberry Place Plat 2 and the South line of Turnberry Place Plat 1, per Plat Book 283, Page 1 North 89 degrees 42'00" East, a distance of 327.50 feet, and North 89 degrees 08'00" East, a distance of 172.70 feet to the West line of Jerry Russell Bliss, recorded in Book 7451, Page 1135 and along the West line of David E. Krueger, recorded in Book 7989, Page 1413 South 00 degrees 07'00" East, a distance of 1,331.68 feet to the center line of Section 32; thence along the center line of Section 32 South 89 degrees 03'00" West, a distance of 175.45 feet to the point of beginning, and containing 18.334 acres, more or less.

**Section Two:** The zoning authority and approval embodied in this ordinance is granted subject to compliance with the Subdivision and Development Regulations, Zoning Ordinance, and all other City of Wildwood ordinances, rules, and regulations and the conditions of this ordinance, except as, may be modified herein, upon the requirement the development and approved Site Development Plan are carried out in accordance with the recommendation forwarded to the City Council by the Planning and Zoning Commission within the communication dated June 5, 2006 which is incorporated herein by reference as if fully set forth in this ordinance. The zoning authority granted herein is further subject to the following conditions:

1. PERMITTED USES

This Planned Residential Development (P.R.D.) Overlay District shall authorize the maximum development of twenty-three (23), detached single family dwellings on individual lots, with common ground (a minimum of 7.15 acres of the 18.3 acre tract of land shall be used for this purpose), and all permitted accessory structures. A swimming pool and recreational complex may be provided as part of this development.

2. LOT SIZES, DEPTHS, AND BUILDING REQUIREMENTS

- a. Each dwelling unit shall be located on an individual lot of record, which shall not be less than thirteen thousand five hundred (13,500) square feet in overall size. The minimum width of any lot within this P.R.D. Overlay District shall be ninety (90) feet in distance at the front building line, except for parcels of ground located within any cul-de-sac. These lot frontages shall be as approved on the Site Development Plan by the Planning and Zoning Commission.
- b. The depth of all lots within this residential subdivision shall be a minimum one hundred fifty (150) feet, as measured from the edge of right-of-way.
- c. No building and/or structure shall be more than two (2) stories above final grade, as measured from the front building line on any individual lot at street elevation. This height restriction shall not apply to walk-out basements, when accessing any rear or side yard area of any permitted lot within this development.
- d. The maximum area of this 18.3 acre tract of land, which can be used for development and related land disturbance for the permitted and accessory uses, shall not exceed **eight point one (8.1)** ~~eight (8)~~ acres. No major or minor variance is granted, as part of these totals.
- e. The minimum amount of this 18.3 acre tract of land, which must be preserved as part of this development, shall be **ten point two (10.2)** ~~twelve point three (12.3)~~ acres in overall size. No major or minor variance is granted, as part of these totals.
- f. If a recreational facility is provided, it shall minimally include an in-ground swimming pool, cabana, and bathhouse, along with related parking and amenities. The facility shall be located in a common ground area

and long-term care and maintenance of it shall be detailed in the development's trust indenture.

### 3. PLAN SUBMITTAL REQUIREMENTS

Within twelve (12) months of the P.R.D. District Overlay approval by the City Council, and prior to any site disturbance, the developer shall submit to the Planning and Zoning Commission for their review and recommendation a Site Development Plan. The City Council shall review this recommendation and take final action on the plan. Where due cause is shown by the developer, this time interval may be extended once by the Planning and Zoning Commission in accordance with requirements of Section 1003.187 of the City of Wildwood Zoning Code. Said Site Development Plan shall include, but not be limited to, the following information:

- a. Outboundary plat and legal description of the property.
- b. A general numbered lot plan with setback lines from all streets and roadways on and adjacent to the property. A typical configuration for a lot indicating all site design information such as, but not limited to, right-of-way widths, improvement dimensions and locations, setbacks, and building placements, along with a minimum and maximum sizes.
- c. The location and size of all residential drives, pavement widths, and right-of-way dedications of all internal roadway improvements.
- d. A general plan indicating setback lines along the perimeter of the subject tract of land and surrounding property lines and related improvements within four hundred (400) feet of this site's boundaries.
- e. Location of all roadways adjacent to the property, including required roadway right-of-way dedication and pavement widening with existing and proposed improvements, and general location, size, right-of-way, and pavement width of all interior drives.
- f. The location and size of all freestanding signs, lighting, fences, sidewalks, and other above ground structures, except retaining walls less than two (2) feet in height per section.
- g. Existing and proposed contours at vertical intervals of not more than two (2) feet.
- h. General location of sanitary sewer and stormwater facilities.
- i. Parking and density calculations.
- j. Conceptual location and size of common ground areas.
- k. A Landscape Plan including, but not limited to, the location, size, and general type of plant materials to be used in accordance with the City of Wildwood's Chapter 410 and accompanying Tree Manual.
- l. An inventory of the percent of tree canopy or individual trees to be retained on the site indicated on a Tree Preservation Plan completed in accordance with the City of Wildwood Chapter 410 Tree Preservation and Restoration Code and accompanying Tree Manual.
- m. Location of all existing and proposed easements.
- n. All other information not mentioned above, but required on a preliminary plat in accordance with Section 1005.060 of the City of Wildwood Subdivision and Development Regulations.

### 4. SITE DEVELOPMENT PLAN DESIGN CRITERIA

The above Site Development Plan shall adhere to the following specific design criteria:

#### Building Setbacks - Residential

- a. Any building or structure, other than boundary and/or retaining walls, fences, detention facilities, and/or light standards, shall adhere to the following setbacks of Section 1003.112 R-1A 22,000 square foot Residence District of the City of Wildwood's Zoning Code, except as specified below:
  - 1.) Twenty (20) feet from any front yard area of any individual lot.
  - 2.) Eight (8) feet from any side yard property line of any individual lot.
  - 3.) Thirty (30) feet for any rear yard setback area. In instances of lots with double frontage, rear yard distances shall be fifteen (15) feet.

#### Parking Setbacks - Residential

- b. All parking stalls or loading spaces, excluding points of ingress or egress and streets and roads, shall comply with the requirements of the Section 1003.112 R-1A 22,000 square foot Residence District of the City of Wildwood's Zoning Code.

#### Miscellaneous Setbacks

- c. No portion of any residential building foundation shall encroach within fifteen (15) feet of the 'Final Resource Protection Line.'

#### Access and Roadway Improvements

- d. Access to Strecker Road shall be limited to one (1) residential street approach located to provide required sight distance and constructed in accordance with City of Wildwood "Design Criteria Manual." All design components, improvement levels, and construction requirements shall also be as directed by the City of Wildwood Department of Public Works.
- e. Roadway improvements, including a turning lane, sidewalks, stormwater drainage facilities, tapers, street lighting and trees, and signage for Strecker Road shall conform to the requirements of the City of Wildwood's "Design Criteria Manual." These roadway improvements shall be constructed or installed as the sole responsibility of the developer of this tract of land. All work in the right-of-way must be reviewed and approved by the City of Wildwood Department of Public Works.
- f. Provide a sidewalk conforming to City of Wildwood ADA standards adjacent to Strecker Road constructed as part of this development. Sidewalks shall be placed on both sides of the pavement area. The installation and construction of these sidewalks shall be as directed by the Department of Public Works and be the sole responsibility of the developer of this residential subdivision.
- g. Dedicate a minimum fifty (50) foot right-of-way area to the City of Wildwood for public purposes and within this area construct a system of internal streets to serve the authorized number of lots. These internal streets shall minimally include a twenty-four (24) foot wide pavement surface, curb and gutter, six (6) foot wide sidewalks on both sides of the right-of-way, stormwater drainage facilities, and other items, as directed by the City of Wildwood Department of Public Works, unless otherwise modified by the Planning and Zoning Commission on the Site Development Plan. The specific design shall be indicated on the Site Development Plan submitted to the Planning and Zoning Commission for review and action.
- h. No individual residential driveway access to this development from Strecker Road will be permitted as part of this development.

#### Miscellaneous Roadway Requirements

- i. Installation of landscaping and ornamental entrance monument or identification signage, if proposed, shall be reviewed by the Department of Public Works for sight distance considerations and approved prior to its installation or construction.
- j. If required sight distance cannot be provided at the access location, acquisition of right-of-way, reconstruction of pavement, including correction to vertical alignment and other off-site improvements, may be required to provide the required sight distance as directed by the Department of Public Works.

#### Parking Requirements

- k. Parking spaces shall be provided as required by Section 1003.165 Off-Street Parking and Loading Requirements of the City of Wildwood Zoning Ordinance for the R-1A 22,000 square foot Residence District.

#### Landscape Requirements - Specific

- l. Landscaping shall adhere to all requirements of Chapter 410 of the City's Code and its accompanying Tree Manual, including the submittal of a Tree Preservation Plan in conjunction with the Site Development Plan.
- m. All streets and roads shall be appropriately landscaped, as required by the Chapter 410 Tree Preservation and Restoration Code, and be approved by the Planning and Zoning Commission on the Site Development Plan.
- n. The areas of existing vegetation within the P.R.D. Overlay District boundaries identified as to be retained shall be marked on the site prior to the commencement of any disturbance in accordance with the City of Wildwood's Chapter 410. These areas shall be indicated on the Site Development Plan submitted to the City of Wildwood for Planning and Zoning Commission review and approval. Existing mature tree canopy shall be preserved in accordance with the requirements of the City of Wildwood's Chapter 410 Tree Preservation and Restoration Code.
- o. Landscaping within the defined common ground areas shall comply with Chapter 410 Tree Preservation and Restoration Code requirements and accompanying Tree Manual. Those areas of common ground to be used for stormwater detention/retention shall comply with the Metropolitan St. Louis Sewer District requirements in this regard. These planting patterns shall minimally meet Bufferyard Standard 'E.'
- p. All landscape plans shall be signed and sealed by a Registered Landscape Architect for submittal and review by the City.

#### Signs

- q. Signs for this P.R.D. Overlay District shall be erected in accordance with the Section 1003.168 Sign Regulations of the City of Wildwood Zoning Ordinance for the R-1A 22,000 square foot Residence District.
- r. The location of all signage shall be as approved on the Site Development Plan by the Planning and Zoning Commission. Signage not located on common ground must be erected within a maintenance easement.

#### Lighting Requirements

- s. The location of all lighting standards shall be as approved on the Site Development Plan. No on-site illumination source shall exceed sixteen (16) feet in height or be so situated that light is cast directly on adjoining properties. Minimally, lighting levels and their design specifications shall be approved by the Director of Planning and subject to reasonable standards, which adhere to generally accepted principles and practices of this industry. Compliance to the regulations of the City's Lighting Code, Section 1003.169, in terms of design, equipment, and installation is mandatory.

#### Miscellaneous Conditions

- t. Parking, circulation, and other applicable site design features shall comply with Chapter 1101, Section 512.4 "Physically Handicapped and Aged" of the S.L.C.R.O. 1974, as amended.
- u. Hours of construction and grading activity shall be limited to 7:00 a.m. to 6:00 p.m. Monday through Friday, and 8:00 a.m. to 6:00 p.m. on Saturday. No development (grading and construction) activity shall be authorized on Sundays.
- v. All retaining walls exceeding two (2) feet in height per section or crossing individual property lines shall be constructed of an appropriate inter-locking concrete block system. Walls crossing property lines shall be located in a maintenance easement. The Planning and Zoning Commission, as part of the Site Development Plan review process, shall approve said materials and design.

- w. The location of all utility easements for proposed service to this development shall be as approved by the Planning and Zoning Commission on the Site Development Plan. Installation of utilities within the respective easements shall adhere to the requirements of the Natural Resource Protection Standards Analysis and, whenever practical, be placed in areas of existing or proposed disturbance relating to previous site activity or the construction of streets or building lots.
- x. All utilities serving this site shall be installed underground in accordance with the requirements of the City of Wildwood's Subdivision and Development Regulations.
- y. All improvements including, but not limited to, streets, roadways, sidewalks, other similar infrastructure features, and stormwater management facilities, along with lot configurations and placements, shall be required to be compatible and integrated into the design of the entire 18.3 acres comprising the subject site.

5. TRAFFIC GENERATION ASSESSMENT FEE

The developer shall contribute to the East Area Traffic Generation Assessment Trust Fund established by Section 140.210 of the City of Wildwood's Revised Codes. This assessment may be paid in full at the time of the first Zoning Authorization for any building or structure, or at the time of each Zoning Authorization for the individual dwellings. This contribution shall not exceed the amount established by multiplying the ordinance provided parking spaces by the following rate:

<i>Type of Development</i>	<i>Required Contribution</i>
Single Family Dwelling	\$820.06/Parking Space

(Parking space as defined by Section 1003.168 of the City of Wildwood Zoning Code.)

If type of development proposed differ than those listed, rates shall be provided by the Department of Public Works.

The amount of this required contribution, if not submitted by January 1, 2006, shall be adjusted on that date and on the first day of January in each succeeding year thereafter in accordance with the construction cost index as determined by the City of Wildwood Department of Public Works.

6. VERIFICATIONS PRIOR TO APPROVAL OF THE SITE DEVELOPMENT PLAN

Prior to approval of the Site Development Plan, the developer shall provide the following:  
Stormwater Improvements

- a. Submit to the Planning and Zoning Commission an engineering plan approved by the Department of Public Works and the Metropolitan St. Louis Sewer District showing that adequate handling of the stormwater drainage of the site is provided.
  - 1) The developer is required to provide adequate stormwater systems in accordance with the City of Wildwood and the Metropolitan St. Louis Sewer District standards.
  - 2) All stormwater shall be discharged at an adequate natural discharge point. Sinkholes are not considered appropriate discharge points.
  - 3) ~~Detention/retention of differential runoff of stormwater shall be required as specified by the Department of Public Works and the Metropolitan St. Louis Sewer District. These features shall be provided in permanent detention/retention facilities, such as ponds, dry reservoirs, or other acceptable alternatives. The detention/retention facilities shall be completed and in operation prior to the issuance of building permits for an approved dwelling unit, except display lots.~~
  - 4) The Commission may require the stormwater plan and required facilities to include a connection to and contribution toward a regional stormwater system that may serve the affected watershed, which may include construction or utilization of on-site or off-site facilities.

#### Geotechnical Report

- b. Provide a Geotechnical Report covering development and grading required by improvements involved with this site as directed by the Department of Public Works. Said report shall verify the adaptability of grading and improvements with soil and geologic conditions which are susceptible to rapid erosion, landslide, and/or creep. A statement of compliance with this study, signed by the Geotechnical Engineer preparing the report, shall be included on all Site Development Plans. The development and construction plans shall be designed to conform to the requirements and conditions of the Geotechnical Report. The Geotechnical Engineer shall be required to sign and seal all plans with a certification the proposed construction will be completed in accordance with the grading and soils requirements and conditions contained in the report.

#### Natural Resource Protection Standard Plans

- c. Provide a revised and final copy of the Natural Resource Protection Plan indicating all areas of the site, which are to be designated as protected and not developable. This revised and final copy of this map shall be reviewed and signed by a qualified soil scientist, who completed the analysis, and a statement indicating compliance with all the requirements of Section 1005.200 of the City of Wildwood's Subdivision and Development Regulations have been met.

#### Environmental Testing

- d. Before the approval of the Site Development Plan by the Planning and Zoning Commission, the developer shall participate and complete a State-managed clean-up of this site for all potential contaminants identified by the Phase II Environmental Assessment Report that was required by the City. The testing protocol must address all pertinent chemicals, compounds, materials, and contaminants and provide a systematic distribution of samples on the site, while meeting all of the Missouri's Department of Natural Resources requirements, regulations, and protocol in this regard. The City and the Missouri Department of Natural Resources shall review results of the testing, prior to their acceptance and action on the Site Development Plan. The Planning and Zoning Commission shall incorporate this review as part of its consideration of the Site Development Plan.

#### Stormwater Pollution Prevention Plan

- e. Submit a Stormwater Pollution Prevention Plan, as part of the Site Development Plan review process, indicating compliance to Federal, State, and local requirements regarding the management of stormwater runoff to prevent siltation and erosion, both on-site and upon downstream properties.

### 7. RECORDING

Within sixty (60) days of approval of the Site Development Plan by the Planning and Zoning Commission, the approved plan shall be recorded with the St. Louis County Recorder of Deeds.

### 8. VERIFICATION PRIOR TO PERMITS

#### Notification to Department of Planning

- a. Subsequent to approval of the Site Development Plan and prior to issuance of any grading, foundation, or building permit, all approvals from the Department of Public Works, the Missouri Department of Natural Resources, and the Metropolitan St. Louis Sewer District must be received by the Department of Planning.
- b. Prior to the issuance of a foundation or building permit for any lot, which adjoins the common ground area and/or detention/retention basin, written certification from a Professional Engineer which verifies these areas are graded in accordance with the approved plans must be received by the Department of Planning.

#### Land Subdivision

- c. Record a proper subdivision of the property and comply with all other applicable Subdivision and Development Regulations sections affecting the development of land, except as otherwise specified by this ordinance.

#### Indentures

- d. With the filing of the record plat establishing separate lots, the developer shall record an approved indenture, which defines the necessary assessments and specific trustee obligations in accordance with provisions of Section 1003.173 and 1003.187 of the City of Wildwood Zoning Code and Section 1005.095 of the Subdivision and Development Regulations.

#### Sanitary Sewage System

- e. The developer shall provide verification from the Metropolitan St. Louis Sewer District that public sewer service has been provided to this site. Verification shall be in a form acceptable to the City of Wildwood in accordance with the provisions of the Section 1005.080 of the Subdivision and Development Regulations.

#### Escrow Requirements

- f. All improvement and landscaping costs shall be submitted to the City of Wildwood through the standard subdivision escrow procedures.

#### Traffic Generation Assessment

- g. Traffic generation assessment contributions shall be deposited with the City of Wildwood in the form of a cash escrow prior to the issuance of building permits. If development phasing is anticipated, the developer shall provide the traffic generation assessment contribution prior to issuance of building permits for each phase of the development.

#### Road Improvements

- h. Based upon the preliminary development plan, improvements to Strecker Road must be completed prior to issuance of the building permits in excess of thirty (30) percent of the total.

### 9. GENERAL DEVELOPMENT CONDITIONS

- a. Provide adequate temporary off-street parking for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked onto the pavement causing hazardous roadway and driving conditions.
- b. A grading permit is required prior to any grading on the site. No grading permit shall be issued by the City's Department of Public Works to the developer until such time the Improvement Plans have been approved. Interim stormwater drainage control in the form of siltation control measures is required.
- c. A copy of the most recently approved Site Development Plan for this P.R.D. Overlay District development shall be prominently displayed at all times in all sales offices for this development.
- d. The petitioner shall be responsible for obtaining all necessary permits from the Department of Natural Resources Clean Water Commission as they relate to the development of this tract of land.
- e. The developer is advised that utility companies will require compensation for relocation of their utility facilities within public rights-of-way. The developer should also be aware of extensive delays in utility company relocation and adjustments. Such delays will not constitute a cause to allow occupancy prior to completion of infrastructure improvements.

- f. If cut and fill operations occur during a season not favorable for immediate establishment of a permanent ground cover, a fast germinating annual, such as rye or sudan grasses, shall be utilized to retard erosion.
- g. Failure to comply with any or all of the conditions of this ordinance shall be adequate cause for revocation of permits by issuing City of Wildwood Departments or Commissions.
- h. The Zoning Enforcement Officer of the City of Wildwood, Missouri, shall enforce the conditions of this ordinance in accordance with Site Development Plans approved by the Planning and Zoning Commission and the Department of Planning.
- i. Any other applicable zoning, subdivision, or other regulations or requirements of the City, whether in effect at the adoption of this ordinance or as may be hereinafter adopted, shall further apply to the development of this property as authorized by this Planned Residential Development Overlay District Ordinance, except as may be provided by law. Nothing herein shall be deemed a waiver of any subdivision, zoning, or other development regulation of the City whether by implication or reference.
- j. This zoning approval is conditioned on compliance with the Zoning Code, Subdivision and Development Regulations, and all applicable laws of the City. Such additional regulations are supplemental to the requirements herein and no modification of any applicable regulations shall result from this Planned Residential Development Overlay District, except where this ordinance has expressly modified such regulations by reference to the applicable provision authorizing such modification.
- k. The developer/owner or other applicable party shall provide to each prospective buyer of a lot within this development an explanation of the environmental history of the area and site and the steps taken relative to the City-required, State-managed clean-up of the same, in a form acceptable to the City, for signature and return to the Department of Planning. Additionally, language shall be included on the plat(s) indicating these same considerations, with the subdivision's trust indentures/restrictions also containing this information about the site's environmental history and the steps taken to mitigate the property under State guidelines and standards for the clean-up of sites identified on the National Priorities List of the United States Environmental Protection Agency.

**Section Three.** This ordinance shall be in full force and effect on and after its passage and approval.

This Bill was passed and approved this 27<sup>th</sup> day of July, 2006 by the Council of the City of Wildwood, Missouri after having been read by title, or in full, two (2) times prior to its passage.

Edward L Marshall  
Presiding Officer

Edward L Marshall  
Edward L. Marshall, Mayor

ATTEST:

Lynne Greene-Beldner  
City Clerk

Lynne Greene-Beldner  
City Clerk



WILDWOOD

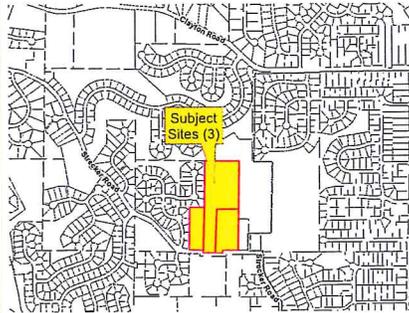
16860 Main Street  
Wildwood, MO 63040

CITY OF WILDWOOD  
NOTICE OF  
**PUBLIC HEARING**

before the Planning and Zoning Commission  
**Monday, September 21, 2015, at 7:30 p.m.**

AS A RESIDENT OR PROPERTY OWNER NEAR THE SITE THAT IS IDENTIFIED ON THIS MAILER, THE CITY OF WILDWOOD WOULD LIKE TO ENSURE YOU ARE AWARE OF THIS REQUEST/PROPOSAL BECAUSE IT IS LOCATED WITHIN 3,000 FEET OF YOUR PROPERTY. YOUR COMMENTS ARE ENCOURAGED, ALONG WITH YOUR PARTICIPATION AT THE SCHEDULED HEARING OR MEETING. THIS ITEM IS SCHEDULED FOR DISCUSSION AND ITS OUTCOME MAY IMPACT YOUR HOME, NEIGHBORHOOD, OR AREA, SO PLEASE CAREFULLY READ THE DESCRIPTION AND PARTICIPATE AT YOUR DISCRETION. THE CITY OF WILDWOOD ENCOURAGES CITIZEN INPUT AT ALL OF ITS HEARINGS OR MEETINGS AND YOUR INVOLVEMENT WILL ASSIST IT IN REACHING THE BEST DECISION POSSIBLE FOR ALL PARTIES.

\* PLEASE SEE YELLOW BOX ON OPPOSITE SIDE OF THIS MAILER FOR A LIST OF WAYS TO EITHER COMMENT ON AND/OR TRACK THIS ITEM.



Street Address of Subject Site:  
165, 173, and 177 Strecker Road

THE CITY WELCOMES AND ENCOURAGES  
YOUR COMMENTS AND PARTICIPATION IN  
ITS PUBLIC PROCESSES.

The Planning and Zoning Commission of the City of Wildwood will conduct a public hearing on **Monday, September 21, 2015, at 7:30 p.m.**, in the City Hall Council Chambers, 16860 Main Street, Wildwood, Missouri 63040 for the purposes of obtaining testimony regarding request(s) for either the modification of zoning district designations, application of special procedures, change in the underlying regulations of the Zoning Ordinance, action on Record Plats, update on zoning matters, or amendment of the Master Plan, which will then be considered for action. This hearing is open to all interested parties to comment upon this request, whether in favor or opposition, or provide additional input for consideration. If you do not have comments regarding this request, no action is required on your part. Written comments are requested to be submitted prior to this hearing and should be addressed to the Planning and Zoning Commission, City of Wildwood, 16860 Main Street, Wildwood, Missouri 63040 or via the City's website at [www.cityofwildwood.com/comment](http://www.cityofwildwood.com/comment). The following request will be considered at this time:

**P.Z. 1 and 1a-99 W.J. Byrne Builders, Inc., 3112 Shady Glen Estates Drive, Wildwood, Missouri 63038** - A request to amend existing Planned Residential Development Overlay District Ordinance #1189 to accommodate changes associated with a redesign of this residential subdivision that was originally approved for twenty-three (23) total units, on individual lots, to be located on a 18.33 acre tract of land, which is located on the north side of Strecker Road, east of Englebrook Drive (Locator Numbers 22U240024, 22U330031, and 22U330062 /Street Addresses 177 Strecker Road, 165 Strecker Road, and 173 Strecker Road). The modifications reflect changes to the site due to environmental considerations relating to a restrictive covenant approved and signed between the property owner and the United States Environmental Protection Agency (EPA), which has necessitated changes to its previously approved design. **(Ward Two)**

**\*RESIDENT OR PROPERTY OWNER - PLEASE COMMENT ON AND/OR TRACK THIS REQUEST BY:**

- 1) Submitting a comment online by visiting: <http://www.cityofwildwood.com/comment>.
- 2) Submitting a written comment prior to the hearing and addressed to the Planning and Zoning Commission, City of Wildwood, 16860 Main Street, Wildwood, Missouri 63040.
- 3) Viewing the Planning and Zoning Commission's agenda, which is available on the City's website at: [www.cityofwildwood.com](http://www.cityofwildwood.com), the Friday before the aforementioned meeting date.

If you should have any questions regarding this information, please feel free to contact the Department of Planning at (636) 458-0440. Thank you in advance for your interest in this matter.

**GENERAL NOTES:**

- THIS SITE IS IN THE FOLLOWING DISTRICTS:  
METROPOLITAN ST. LOUIS SEWER DISTRICT  
METRO WEST FIRE PROTECTION DISTRICT  
ROCKWOOD R-6 SCHOOL DISTRICT
- THIS SITE IS IN FOLLOWING UTILITY SERVICE AREAS:  
MISSOURI AMERICAN WATER COMPANY  
AMEREN UE  
AT&T  
LACLEDE GAS  
CHARTER COMMUNICATIONS
- SANITARY SEWER CONSTRUCTION AND CONNECTIONS SHALL BE AS APPROVED BY THE METROPOLITAN ST. LOUIS SEWER DISTRICT AND IN ACCORDANCE WITH THE STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES.
- STORMWATER DESIGN SHALL BE DESIGNED PURSUANT TO THE CITY OF WILDWOOD AND METROPOLITAN ST. LOUIS SEWER DISTRICT REQUIREMENTS AND DISCHARGE AT AN ADEQUATE NATURAL DISCHARGE POINT.
- NO SLOPES SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL), UNLESS JUSTIFIED BY GEOTECHNICAL REPORT WHICH HAS BEEN ACCEPTED/APPROVED BY THE CITY OF WILDWOOD.
- THE LOCATION OF STORM AND SANITARY SEWER IMPROVEMENTS ARE APPROXIMATE ONLY. ACTUAL LOCATION SHALL BE DETERMINED BY FIELD CONDITIONS AND SHALL BE INDICATED ON THE IMPROVEMENT PLANS.
- GRADING SHALL BE PER CITY OF WILDWOOD STANDARDS. SOURCE OF TOPOGRAPHIC INFORMATION, AERIAL PHOTOGRAMMETRIC MAPS.
- STREET TREES, STREET LIGHTS, AND SIDEWALKS SHALL BE PER CITY OF WILDWOOD STANDARDS.
- PROJECT IDENTIFICATION SIGN SHALL HAVE A MAXIMUM SIGN AREA OF TWENTY FIVE (25) SQUARE FEET, A MAXIMUM HEIGHT OF TEN (10) FEET, AND SHALL REMAIN OUTSIDE OF THE THIRTY (30) FOOT SIGHT DISTANCE TRIANGLE.
- NEAREST MAJOR INTERSECTION: SITE IS ON STRECKER ROAD 1000± SOUTH-WEST OF TIMBER RIDGE ESTATES DRIVE.
- ALL SIDEWALKS WILL BE CONSTRUCTED TO THE CITY OF WILDWOOD STANDARDS.
- IMPROVE STRECKER ROAD TO ONE-HALF (1/2) OF A TWENTY-FOUR (24) FOOT PAVEMENT WIDTH, AND AN EIGHT (8) FOOT SOFT SHOULDER, AND A FIVE (5) FOOT WIDE SIDEWALK, WHICH MEETS CITY OF WILDWOOD ADA STANDARDS.
- ROAD DEDICATION WILL BE PROVIDED AS REQUIRED BY THE CITY OF WILDWOOD.
- NO DIRECT RESIDENTIAL DRIVEWAY ACCESS WILL BE ALLOWED FROM THIS DEVELOPMENT ONTO STRECKER ROAD AND ALL EXISTING DRIVEWAY AREAS WILL BE RESTORED.
- ENTRANCE, STREET INTERSECTION AND CUL-DE-SAC SHALL BE CONSTRUCTED TO CITY OF WILDWOOD STANDARDS.
- THE LIGHT STANDARDS SHALL BE 'EARLY AMERICAN' PROVIDED BY AMEREN UE.
- RECORD OWNERS:  
CLAYTON DEVELOPMENT, L.L.C.  
22U-33-0062  
173 STRECKER ROAD  
WILDWOOD, MO  
22U-33-0031  
165 STRECKER ROAD  
WILDWOOD, MO  
22U-24-0024  
177 STRECKER ROAD  
WILDWOOD, MO

**SITE INFORMATION**

LOCATOR NUMBERS: 22U-33-0062  
22U-33-0031  
22U-24-0024

EXISTING ZONING: "H-U"  
PROPOSED ZONING: R-1A 22,000 sq. ft. Residence District, with a Planned Residential Development Overlay District.

GROSS AREA OF SITE: 18.26 AC.  
AREA OF RIGHT-OF-WAY: 1.65 AC.  
AREA OF COMMON GROUND: 8.64 AC.  
AVERAGE LOT SIZE: 17,358 SQ.FT.

DENSITY CALCULATIONS:  $(18.26 \text{ AC} - 1.65 \text{ AC}) / (43,550 \text{ SQ.FT./AC.}) = 32.89$   
(22,000 SQ.FT./LOT)

MAXIMUM NUMBER OF UNITS ALLOWED: 32  
NUMBER OF UNITS PROPOSED: 20

LOT DEVELOPMENT REQUIREMENTS:  
BUILDING LINE 20' MIN.  
SIDE YARD 8' MIN.  
REAR YARD 30' MIN.

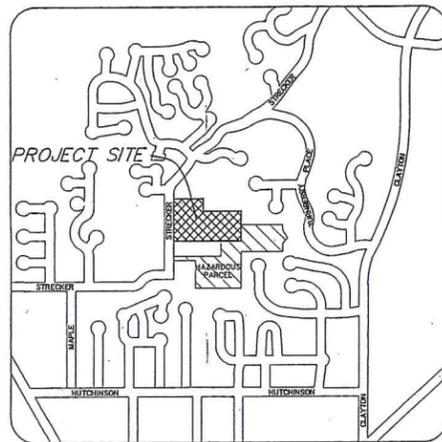
NUMBER OF PARKING SPACES: 2 PER LOT = 40

PROPOSED STREETS SHALL BE PRIVATE 28' WIDE PAVEMENT WITH 50' WIDE R.O.W.

# STRECKER FOREST

A TRACT OF LAND BEING PART OF THE SOUTHEAST 1/4  
OF THE NORTHEAST 1/4 OF SECTION 31 AND PART OF THE SOUTHWEST  
1/4 OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 45  
NORTH, RANGE 4 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI.

## AMENDED SITE DEVELOPMENT PLAN



LOCATION MAP  
SCALE 1"=200'

PROJECT ZIP CODE: 63011

**INDEX OF SHEETS**

- COVER SHEET
- SITE DEVELOPMENT PLAN
- SITE SECTION
- SIGHT DISTANCE PLAN
- ORDINANCE

**INDEX OF SHEETS**

- COVER SHEET
- SITE DEVELOPMENT PLAN
- SITE SECTION
- SIGHT DISTANCE PLAN
- ORDINANCE
- ORDINANCE

EXISTING	LEGEND	PROPOSED
--- 542 ---	CONTOURS	--- (542) ---
X 5.36	SPOT ELEVATIONS	XXX.X
---	CENTER LINE	---
---	BUILDINGS, ETC.	---
---	TREE LINE	---
X X	FENCE	X X
---	SILTATION CONTROL FENCE	X
---	STORM SEWERS	---
---	SANITARY SEWERS	---
---	CATCH BASIN	---
---	AREA INLET	---
---	GRATED INLET	---
---	DOUBLE CURB INLET	---
---	STORM MANHOLE	---
---	SANITARY MANHOLE	---
---	FLARED END SECTION	---
---	CLEANOUT	---
---	LATERAL CONNECTION	---
---	UTILITY OR POWER POLE	---
---	FIRE HYDRANT	---
---	TEST HOLE	---
---	PAVEMENT	---
---	GAS MAIN & SIZE	(G) (G)
---	WATER MAIN & SIZE	(W) (W)
---	TELEPHONE	(T) (T)
---	ELECTRIC (U) UNDERGROUND	(U) (U)
---	ELECTRIC (O) OVERHEAD	(O) (O)
---	FIBER OPTIC	(FO) (FO)
---	FLOW LINE	---
---	TO BE REMOVED	TBR
---	TO BE REMOVED & RELOCATED/REPLACED	TBRR
---	TOP OF CURB	(TC)
---	SWALE	---
---	LIGHT STANDARD	---
---	STREET SIGN	---
---	PARKING STALLS	P.S.
---	YARD LIGHT	---

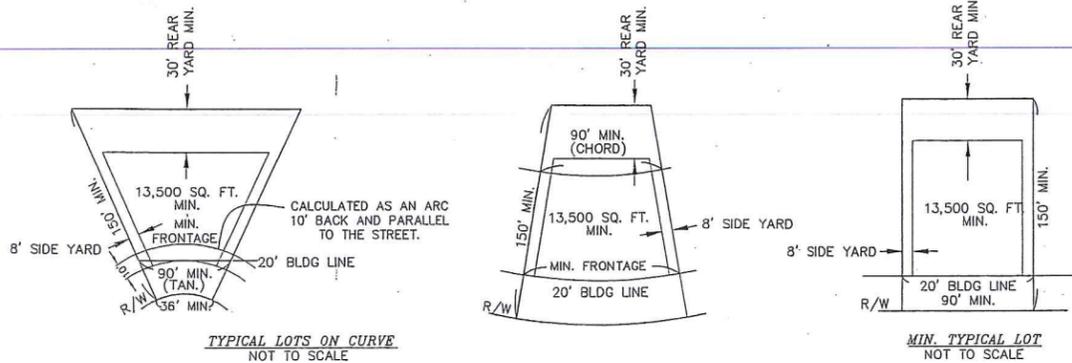
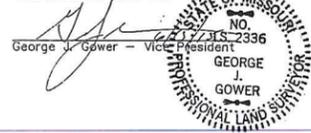
**ABBREVIATIONS**

FL	FLOW LINE	FC	FACE OF CURB
TBR	TO BE REMOVED	BC	BACK OF CURB
TBRR	TO BE REMOVED & RELOCATED/REPLACED	PFM	PAVEMENT
TC	TOP OF CURB	LF	LINEAR FEET
G	GUTTER	HGL	HYDRAULIC GRADE LINE
SW	SIDEWALK	CL	CENTERLINE
		TP	TYPICAL

**SURVEYOR'S CERTIFICATE**

This is to certify that we have, during the month of June 2015, at the request of W. J. Byrne Builders, Inc., prepared an Amended Site Development Plan of "Strecker Forest". This plan is a correct representation of all existing and proposed land divisions. This plan is not a survey and does not meet the "Missouri Minimum Standards for Property Boundary Surveys" (10 CSR 30-2 and 4 CSR 30-16 effective date December 30, 1994).

THE STERLING COMPANY



**LEGAL DESCRIPTION**

A TRACT OF LAND BEING PART OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 31 AND PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 45 NORTH, RANGE 4 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF A TRACT OF LAND DESCRIBED IN A DEED TO DAVID E. KRUEGER PER DEED BOOK 7989 PAGE 1413 OF THE ST. LOUIS COUNTY RECORDS; SAID CORNER ALSO BEING ON THE NORTH LINE OF STRECKER (VARIABLE WIDTH) ROAD, SAID POINT BEING 20' NORTH OF CENTERLINE; THENCE WITH THE SAID NORTH LINE OF STRECKER ROAD, SOUTH 89°05'35" WEST 175.43 FEET TO A POINT ON THE COMMON LINE BETWEEN SECTIONS 31 AND 32; SAID POINT ALSO BEING AN ANGLE POINT IN AFORESAID STRECKER ROAD; THENCE WITH SAID SECTION LINE, SOUTH 00°00'43" EAST 20.00 FEET TO A POINT FOUND FOR THE QUARTER SECTION CORNER; THENCE WITH THE EAST/WEST CENTERLINE OF SECTION 31 BEING ALSO 15.00 NORTH OF AND PARALLEL TO THE CENTERLINE OF SAID STRECKER ROAD, SOUTH 89°42'40" WEST 328.28 TO AN ANGLE POINT IN SAID STRECKER ROAD; THENCE NORTH 00°02'41" EAST 20.00 FEET TO A POINT; THENCE WITH A LINE BEING 20.00 NORTH OF AND PARALLEL TO AFORESAID CENTER SECTION LINE AND THE SAID CENTERLINE OF STRECKER ROAD, SOUTH 89°42'40" WEST 208.71 FEET TO A POINT BEING THE SOUTHWEST CORNER OF A RIGHT OF WAY DEDICATION STRIP AS SHOWN ON THE PLAT OF STRECKER FARMS PLAT I AS PER THE PLAT THEREOF RECORDED IN PLAT BOOK 331 PAGES 91 & 92 OF SAID RECORDS; THENCE WITH THE EAST LINE OF SAID STRECKER FARMS PLAT I, NORTH 00°02'41" EAST 626.14 FEET, NORTH 89°38'56" EAST 208.71 FEET AND NORTH 00°02'41" EAST 688.35 FEET TO A POINT FOUND FOR THE NORTHEAST CORNER THEREOF; SAID CORNER ALSO BEING ON THE SOUTH LINE OF TURNBERRY PLACE PLAT II PER THE PLAT THEREOF RECORDED IN PLAT BOOK 286 PAGE 88-91 OF SAID RECORDS AND BEING A POINT ON THE NORTH LINE OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 31; THENCE WITH THE SAID QUARTER QUARTER SECTION LINE, NORTH 89°57'25" EAST 328.98 FEET TO THE NORTHEAST CORNER OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 31 AND BEING THE NORTHWEST CORNER OF THE SOUTHWEST 1/4 OF SECTION 32; THENCE WITH SAID QUARTER QUARTER NORTH 89°15'28" EAST 172.70 FEET TO THE NORTHWEST CORNER OF A TRACT OF LAND DESCRIBED IN A DEED TO JERRY RUSSELL BLISS PER DEED BOOK 7451 PAGE 1135 OF SAID RECORDS; THENCE WITH THE WEST LINE THEREOF AND ITS DIRECT PROLONGATION, SOUTH 00°07'51" EAST 1310.78 FEET TO THE POINT OF BEGINNING AND CONTAINING 795,283 SQUARE FEET, (18.2571 ACRES) MORE OR LESS ACCORDING TO A SURVEY BY THE STERLING COMPANY DURING THE MONTH OF JANUARY, 2006.

MSD Base Map 22-U  
MSD P #28188-01

ISSUE	REMARKS/DATE
1	06/23/15 INITIAL SUBMITTAL

Claymont Development, LLC  
26 Pracland Estates Drive  
Chestertield, Missouri 63005  
(636) 459-6155

THE STERLING COMPANY  
ENGINEERS & SURVEYORS  
5055 New Baumgartner Road  
St. Louis, Missouri 63129  
Ph: 314-407-9440 Fax: 314-407-9844  
Corporate Certificate of Authority #001348

STRECKER FOREST  
CITY OF WILDWOOD, MISSOURI  
SITE DEVELOPMENT PLAN  
COVER SHEET

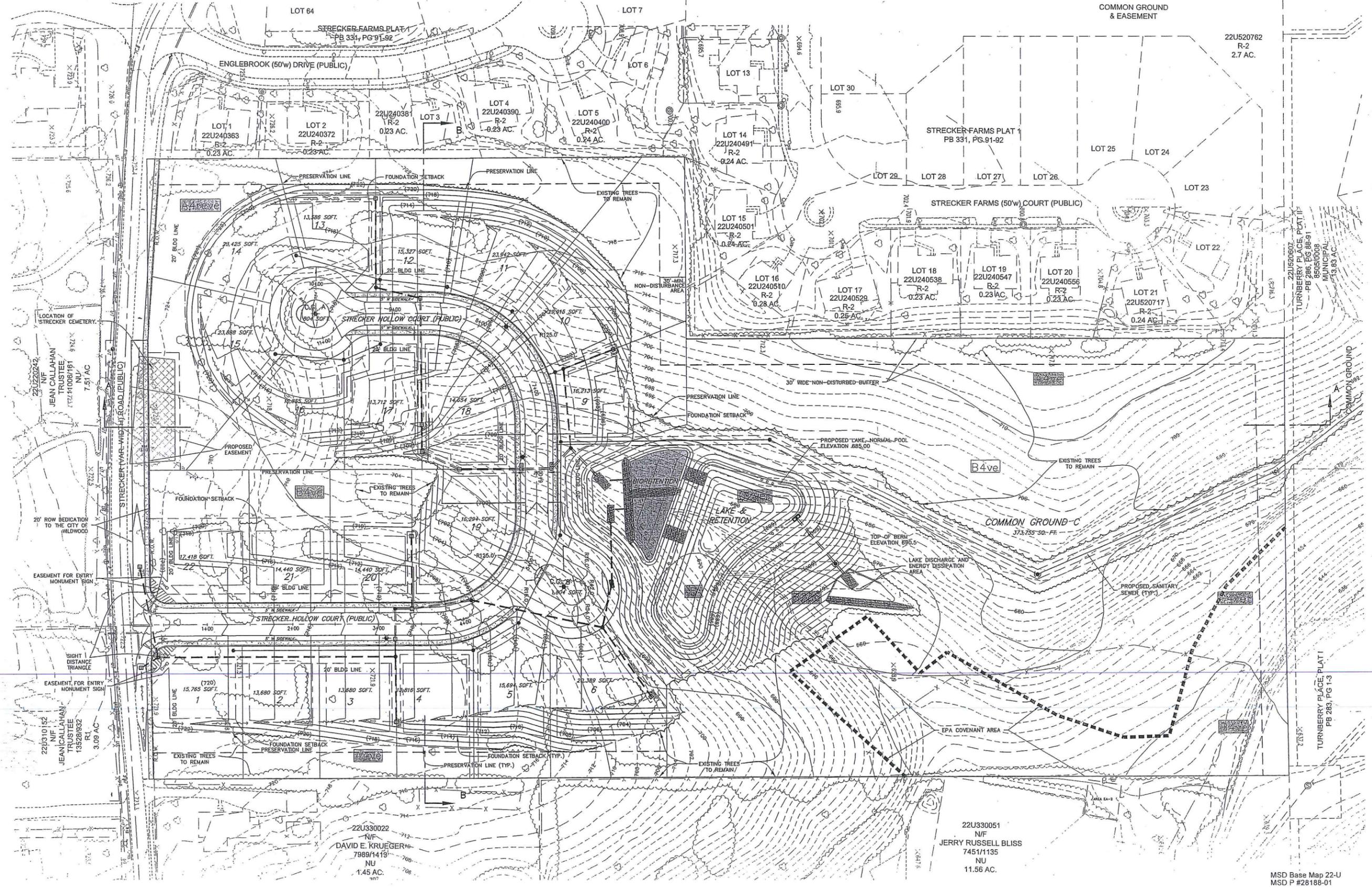
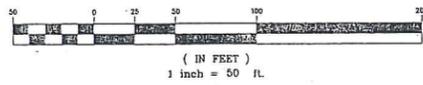
CITY OF WILDWOOD  
DEPT. OF PLANNING & PARKS  
JUN 16 2015

Professional Engineer seal for Jason D. Howell, No. PE-200702801, State of Missouri.

Date: 6/15/15  
Jason D. Howell, PE  
License No. 200702801  
Civil Engineer

Job Number: 13-01-006  
Date: June 11, 2015  
Designed: Sheet  
Drawn: 1  
Checked: SDP

GRAPHIC SCALE



ISSUE	REMARKS/DATE
1	06/12/15 INITIAL SUBMITTAL

Claymont Development, LLC  
 26 Pacland Estates Drive  
 Chesterfield, Missouri 63005  
 (636) 458-6155

THE STERLING CO.  
 ENGINEERS & SURVEYORS  
 5055 New Baumgartner Road  
 St. Louis, Missouri 63123  
 Ph 314-487-0440 Fax 314-487-8644  
 www.sterling-eng-survey.com  
 Corporate Certificate of Authority #001348

**STRECKER FOREST**  
 CITY OF WILWOOD, MISSOURI  
 SITE DEVELOPMENT PLAN  
 SITE PLAN

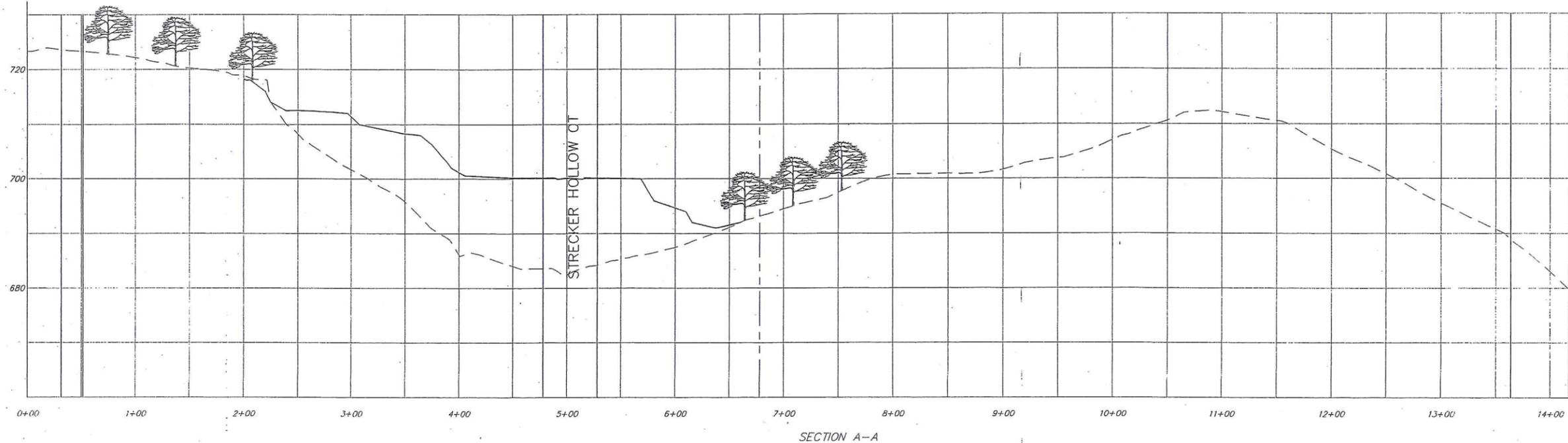


Date: 6-15-15  
 Jason D. Howell, PE  
 License No. 2007002801  
 Civil Engineer

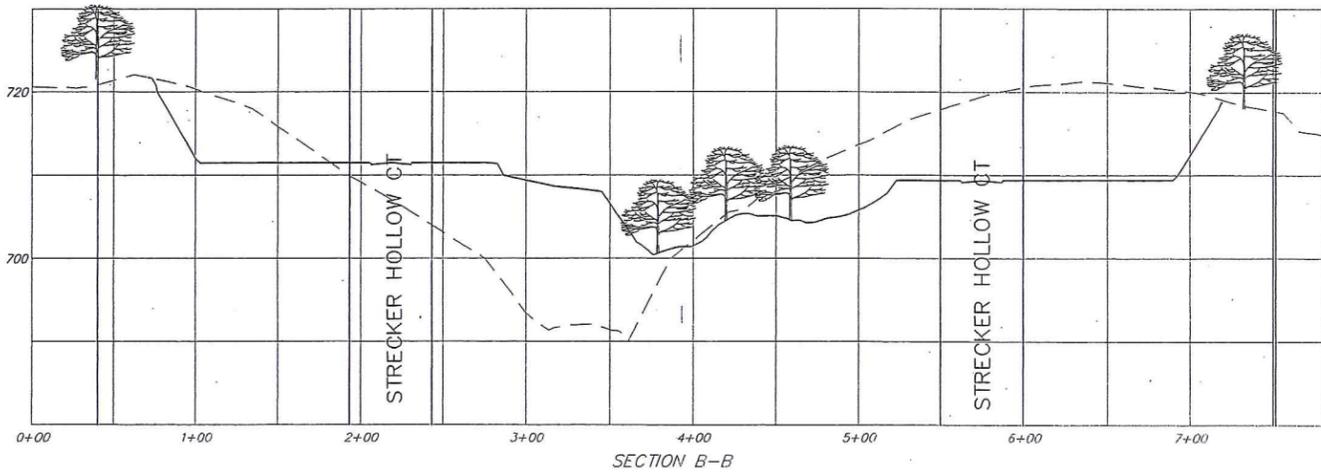
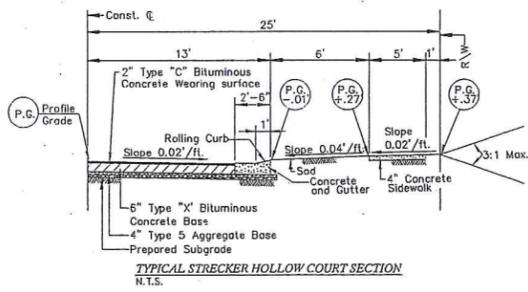
Job Number	13-01-006
Date	June 11, 2015
Designed:	Sheet
Drawn:	2
Checked:	SJP

MSD Base Map 22-U  
 MSD P #28188-01

Drawn by: V11300008 Strecker Forest Engineers/SJP-1305E Reviewer: SJP-1305E Plotted on: Jun 15, 2015, 1:12:46m Plotted by: jhowell



SECTION A-A



SECTION B-B

HORIZONTAL 1"=50'  
VERTICAL 1"=10'

LOT	ACREAGE OF EXISTING TREES	ACREAGE OF TREES REMAINING	PERCENTAGE OF TREES REMAINING
1	.07	.02	29
2	.11	.03	27
3	.02	.02	100
4	.04	.01	25
5	.10	.01	10
6	.21	.09	43
7	.39	.17	44
8	.69	.38	55
9	.37	.14	38
10	.31	.08	26
11	.17	.07	41
12	.16	.07	44
13	.12	.06	50
14	.11	0	0
15	.29	.03	10
16	.34	0	0
17	.22	.02	9
18	.14	.07	50
19	.05	0	0
20	.12	.05	42

TREE PRESERVATION	
13.48 AC. OF TREES EXISTING	
5.85 AC. OF TREES REMOVED	
7.63 AC OF TREES REMAIN	
TOTAL = 56.60% OF TREES PRESERVED	

SYMBOL	ACRES	% REQUIRED TO BE PRESERVED	ACRES REQUIRED TO BE PRESERVED	ACRES REQUIRED TO BE DISTURBED	ACRES PRESERVED	USABLE AREA
AREVE	2.02	50%	1.01	1.01	1.26	0.80
AVE	3.42	20%	0.68	2.74	.99	2.46
AVE	0.72	20%	0.14	0.58	.72	0.00
BVE	6.64	50%	3.25	3.25	2.93	2.94
BVE	0.34	50%	0.17	0.17	.34	0.04
BZCA	0.39	100%	0.39	0.00	.39	0.03
CAVE	2.11	90%	1.90	0.21	1.35	1.31
CAVE	1.85	90%	1.67	0.18	1.78	0.07
D	0.72	100%	0.72	0.00	.72	0.38
EPHEMERAL DRAINAGE	.12	100%	0.12	0.00	0	0.12
TOTAL	18.30	--	10.06	8.14	10.46	8.15

ISSUE	REMARKS/DATE
1	06/21/15 INITIAL SUBMITTAL

Claymont Development, LLC  
26 Pacland Estates Drive  
Chesterfield, Missouri 63005  
(636) 458-6155

THE STERLING ENGINEERS & SURVEYORS  
5655 New Baumgartner Road  
St. Louis, Missouri 63229  
Ph. 314-487-0440 Fax 314-487-8944  
www.sterling-eng-survey.com  
Corporate Certificate of Authority #001348

STRECKER FOREST  
CITY OF WILLOWOOD, MISSOURI  
SITE DEVELOPMENT PLAN  
SECTIONS/PRESERVATION AREAS

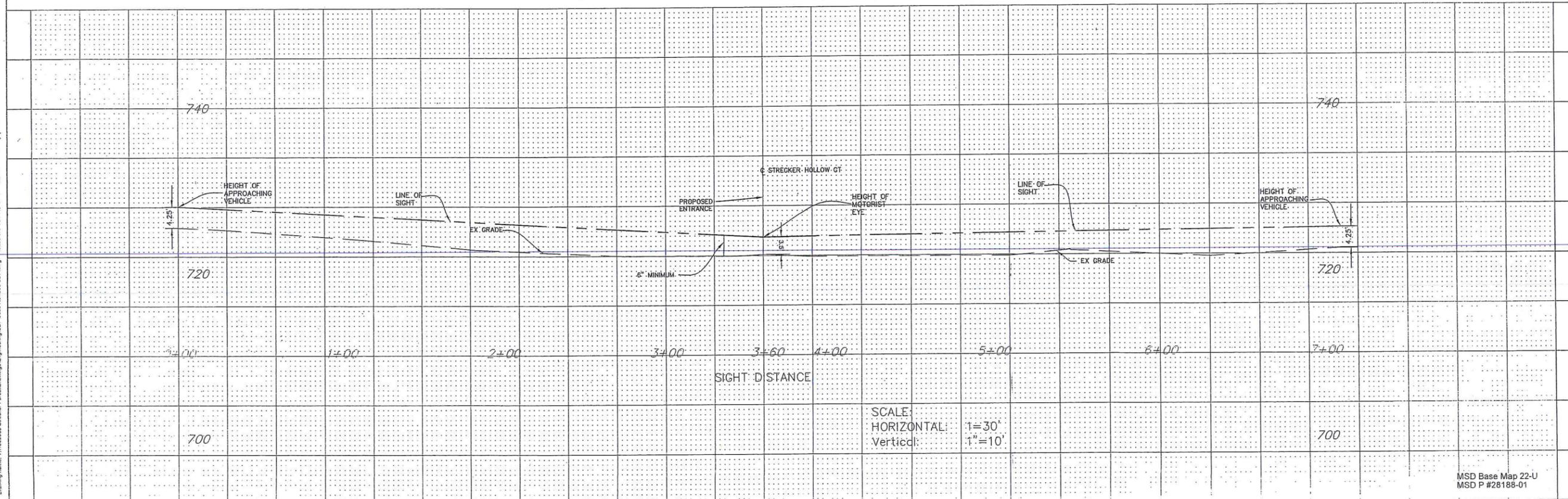
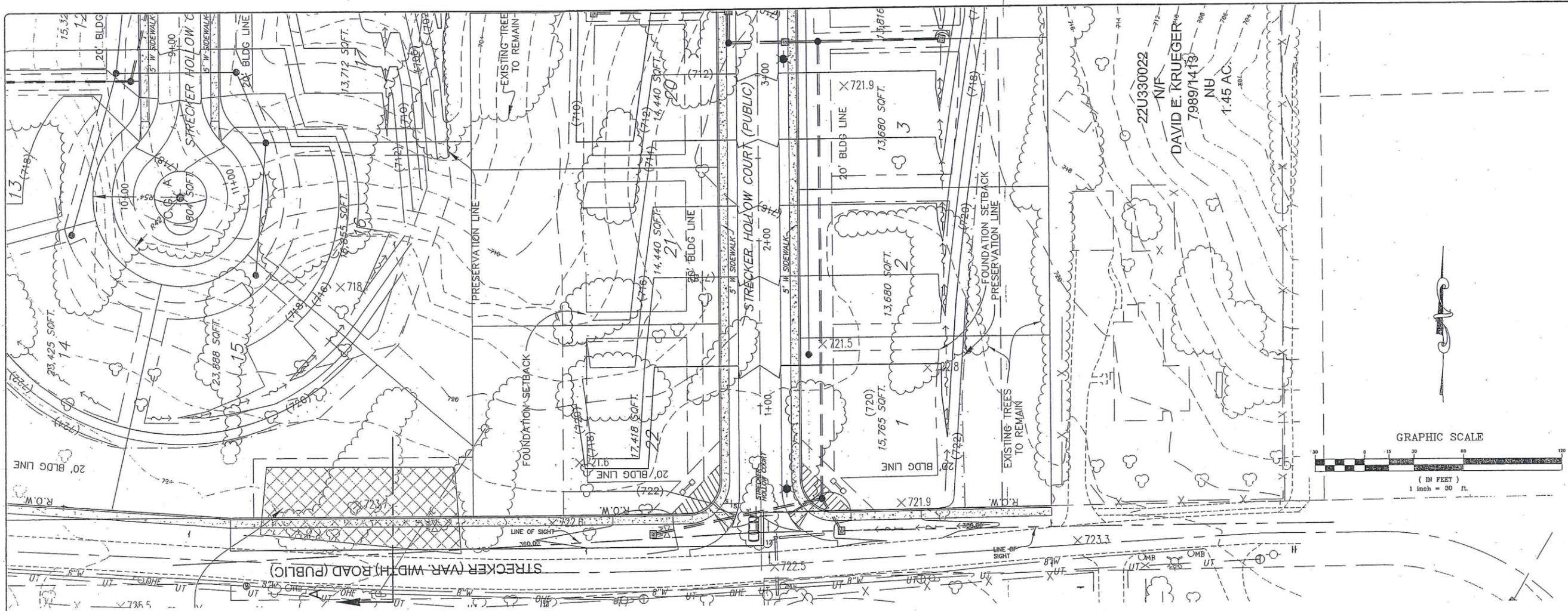
Professional Engineer Seal for Jason D. Howell, License No. 2007002801, State of Missouri.

Date: 6-11-15  
Jason D. Howell, PE  
License No. 2007002801  
Civil Engineer

Job Number: 13-01-006  
Date: June 11, 2015  
Designed: Sheet 3  
Drawn: 3  
Checked: SDP

Drawing Name: V:\130308 Streecker Forest\Drawings\Site\SDP\002 Revised SDP.dwg Plotted on: Jun 16, 2015 - 1:12:08m Plotted by: jhowell

Drawing name: V:\1300089 Stretcher Forest\Drawings\Engineering\SDP\008 Revised SDP.dwg Printed on: Jun 11, 2015 - 11:28am Plotted by: jhowell



ISSUE	REMARKS/DATE
1	06/12/15 INITIAL SUBMITTAL

**Claymont Development, LLC**  
28 Pacland Estates Drive  
Chesterfield, Missouri 63005  
(636) 456-6155

**THE STERLING ENGINEERS & SURVEYORS CO.**  
5065 New Baumgartner Road  
Ph: 914-487-0240 Fax: 314-487-5844  
www.sterling-eng-sur.com  
Corporate Certificate of Authority #001348

**STRECKER FOREST**  
CITY OF WILDMOOD, MISSOURI  
SITE DEVELOPMENT PLAN  
SECTIONS/PRESERVATION AREAS

The Professional Engineer's seal and signature are valid only if the seal and signature are on the original and are not altered in any way. All drawings, specifications or other documents prepared by this engineer, and the engineer's capacity to perform the work, shall be the responsibility of the engineer. No part of this drawing shall be used for any other project without the written consent of the engineer.

**JASON D. HOWELL**  
PROFESSIONAL ENGINEER  
FE-2007002801

Date: 6/11/15  
Jason D. Howell, PE  
License No. 2007002801  
Civil Engineer

Job Number: 13-01-006  
Date: June 11, 2015  
Designed: Sheet 4  
Drawn: SDP  
Checked: SDP

MSD Base Map 22-U  
MSD P #28188-01

AMENDED BILL #1321 ORDINANCE #1321  
AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD AUTHORIZING AN AMENDMENT TO PLANNED RESIDENTIAL DEVELOPMENT OVERLAY DISTRICT ORDINANCE #1189 TO ADDRESS THE EXTENT OF PRESERVATION REQUIRED BY THE NATURAL RESOURCE PROTECTION STANDARDS BY ALLOWING A REDUCTION IN THE AMOUNT DUE TO A CALCULATION ERROR THAT WAS MADE, WHEN THIS TWENTY-THREE (23) LOT RESIDENTIAL SUBDIVISION WAS APPROVED. (Word Two)

WHEREAS, the City Council approved a Planned Residential Development Overlay District in the R-1A 22,000 square foot Residence District for a 18.3 acre tract of land that allowed its development with twenty-three (23), single family dwellings on individual lots that were greater than 13,500 square feet in size; and

WHEREAS, the development of this residential subdivision was required to meet the Natural Resource Protection Standards of the City's Subdivision and Development Regulations, which indicated that approximately eight (8) acres of the site could be used for development purposes, such as building sites, roadways, other infrastructure improvements, and utility installations; and

WHEREAS, the amount of required preservation on this 18.3 acre site was calculated originally at over twelve (12) acres in size, which when combined with the area of the property allowed to be disturbed, exceeded the overall acreage of the tract of land; and

WHEREAS, this calculation error had to be addressed by reducing the amount of preservation area to the difference between the permitted eight (8) acres of disturbance and the overall size of the tract of land; and

WHEREAS, the change in the amount of required preservation area on this 18.3 acres was from twelve (12) acres to ten (10) acres, which is consistent with the overall size of the tract of land; and

WHEREAS, the change in the preservation amounts associated with this site does not increase the amount of overall site disturbance, but addresses the calculation error made by the Department of Planning, when it prepared the recommendation regarding this change in zoning and application of the Planned Residential Development Overlay District upon the subject site; and

WHEREAS, the Planning and Zoning Commission considered this request at its June 5, 2006 Executive Meeting and recommended approval of the amendment of the Planned Residential Development Overlay District Ordinance to accommodate this change due to the amount of preserved acres remained unaltered; and

WHEREAS, the City Council held a public hearing on June 26, 2006 and heard comments from all appropriate parties and endorsed the preparation of legislation to address this change in the preservation amount for this residential site relative to the Natural Resource Protection Standards, which was introduced on July 10, 2006; and

WHEREAS, as part of this consideration, the Planning and Zoning Commission, along with the City Council, chose not to apply the Public Space Ordinance requirements, nor reduce the density of the development due to the change in the 'Suburban' Residential Area that occurred with the 2006 Update of Master Plan, since the need for the change in the site-specific ordinance was prompted by the error on the Department's part; and

WHEREAS, the City of Wildwood, on September 1, 1995, adopted specific ordinances, codes, and regulations enabling it to administer its zoning and subdivision authorities to benefit the health, safety, and general welfare of its residents.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AS FOLLOWS:

Section One. The City of Wildwood Zoning Ordinances and Official Zoning District Maps, which are made a part hereof, are hereby amended by enacting a change in Planned Residential Development Overlay District Ordinance #1189, as set forth in this ordinance for the following described land:

A tract of land situated partly in the Southeast 1/4 of the Northeast 1/4 of Section 31, and partly in the Southwest 1/4 of the Northwest 1/4 of Section 32, Township 45 North, Range 4 East, St. Louis County, Missouri and described as follows: Beginning at an old stone in the center line of Section 31 on the line between Sections 31 and 32; thence along the East-West center line of Section 31, South 89 degrees 42'00" West, a distance of 327.50 feet to the Southwest corner of property described in deed to Patricia V. and Gerald W. Primm, Trustees U/L, recorded in Book 8813, Page 2172, thence North, a distance of 20.00 feet to the North line of Strecker Road, 40 feet wide, thence along said North line of Strecker Road South 89 degrees 36'21" West, a distance of 208.71 feet to the East line of Strecker Farms Plot 1, per Plat Book 331, Pages 91 and 92; thence along East line of said Strecker Farms Plot 1, the following: North a distance of 625.62 feet, North 89 degrees 36'21" East, a distance of 208.71 feet and North a distance of 886.36 feet to the South line of Turnberry Place Plat 2, per Plat Book 286, Page 88; thence along the South line of said Turnberry Place Plat 2 and the South line of Turnberry Place Plat 1, per Plat Book 283, Page 1 North 89 degrees 42'00" East, a distance of 327.50 feet, and North 89 degrees 08'00" East, a distance of 172.70 feet to the West line of Jerry Russell Bliss, recorded in Book 7451, Page 1135 and along the West line of David E. Krueger, recorded in Book 7989, Page 1413 South 00 degrees 07'00" East, a distance of 1,331.68 feet to the center line of Section 32; thence along the center line of Section 32 South 89 degrees 03'00" West, a distance of 175.45 feet to the point of beginning, and containing 18.334 acres, more or less.

Section Two. The zoning authority and approval embodied in this ordinance is granted subject to compliance with the Subdivision and Development Regulations, Zoning Code, and all other City of Wildwood ordinances, rules, and regulations and the conditions of this ordinance, except as, may be modified herein, upon the requirement the development and approved Site Development Plan are carried out in accordance with the recommendation forwarded to the City Council by the Planning and Zoning Commission within the communication dated June 5, 2006 which is incorporated herein by reference as if fully set forth in this ordinance. The zoning authority granted herein is further subject to the following conditions:

1. PERMITTED USES

This Planned Residential Development (P.R.D.) Overlay District shall authorize the maximum development of twenty-three (23), detached single family dwellings on individual lots, with common ground (a minimum of 7.15 acres of the 18.3 acre tract of land shall be used for this purpose), and all permitted accessory structures. A swimming pool and recreational complex may be provided as part of this development.

2. LOT SIZES, DEPTHS, AND BUILDING REQUIREMENTS

- a. Each dwelling unit shall be located on an individual lot of record, which shall not be less than thirteen thousand five hundred (13,500) square feet in overall size. The minimum width of any lot within this P.R.D. Overlay District shall be ninety (90) feet in distance at the front building line, except for parcels of ground located within any cul-de-sac. These lot frontages shall be as approved on the Site Development Plan by the Planning and Zoning Commission.
- b. The depth of all lots within this residential subdivision shall be a minimum one hundred fifty (150) feet, as measured from the edge of right-of-way.
- c. No building and/or structure shall be more than two (2) stories above final grade, as measured from the front building line on any individual lot at street elevation. This height restriction shall not apply to walk-out basements, when accessing any rear or side yard area of any permitted lot within this development.
- d. The maximum area of this 18.3 acre tract of land, which can be used for development and related land disturbance for the permitted and accessory uses, shall not exceed eight point one (8.1) ~~eight (8)~~ acres. No major or minor variance is granted, as part of these totals.
- e. The minimum amount of this 18.3 acre tract of land, which must be preserved as part of this development, shall be ten point two (10.2) ~~twelve point three (12.3)~~ acres in overall size. No major or minor variance is granted, as part of these totals.
- f. If a recreational facility is provided, it shall minimally include an in-ground swimming pool, cabana, and bathroom, along with related parking and amenities. The facility shall be located in a common ground area and long-term care and maintenance of it shall be detailed in the development's trust indenture.

3. PLAN SUBMITTAL REQUIREMENTS

Within twelve (12) months of the P.R.D. District Overlay approval by the City Council, and prior to any site disturbance, the developer shall submit to the Planning and Zoning Commission for their review and recommendation a Site Development Plan. The City Council shall review this recommendation and take final action on the plan. Where due cause is shown by the developer, this time interval may be extended once by the Planning and Zoning Commission in accordance with requirements of Section 1003.167 of the City of Wildwood Zoning Code. Said Site Development Plan shall include, but not be limited to, the following information:

- a. Outboundary plot and legal description of the property.
- b. A general numbered lot plan with setback lines from all streets and roadways on and adjacent to the property. A typical configuration for a lot indicating all site design information such as, but not limited to, right-of-way widths, improvement dimensions and locations, setbacks, and building placements, along with a minimum and maximum sizes.
- c. The location and size of all residential drives, pavement widths, and right-of-way dedications of all internal roadway improvements.
- d. A general plan indicating setback lines along the perimeter of the subject tract of land and surrounding property lines and related improvements within four hundred (400) feet of this site's boundaries.
- e. Location of all roadways adjacent to the property, including required roadway right-of-way dedication and pavement widening with existing and proposed improvements, and general location, size, right-of-way, and pavement width of all interior drives.
- f. The location and size of all freestanding signs, lighting, fences, sidewalks, and other above ground structures, except retaining walls less than two (2) feet in height per section.
- g. Existing and proposed contours at vertical intervals of not more than two (2) feet.
- h. General location of sanitary sewer and stormwater facilities.
- i. Parking and density calculations.
- j. Conceptual location and size of common ground areas.
- k. A Landscape Plan including, but not limited to, the location, size, and general type of plant materials to be used in accordance with the City of Wildwood's Chapter 410 and accompanying Tree Manual.
- l. An inventory of the percent of tree canopy or individual trees to be retained on the site indicated on a Tree Preservation Plan completed in accordance with the City of Wildwood Chapter 410 Tree Preservation and Restoration Code and accompanying Tree Manual.
- m. Location of all existing and proposed easements.
- n. All other information not mentioned above, but required on a preliminary plat in accordance with Section 1005.060 of the City of Wildwood Subdivision and Development Regulations.

4. SITE DEVELOPMENT PLAN DESIGN CRITERIA

The above Site Development Plan shall adhere to the following specific design criteria:

Building Setbacks - Residential

- a. Any building or structure, other than boundary and/or retaining walls, fences, detention facilities, and/or light standards, shall adhere to the following setbacks of Section 1003.112, R-1A 22,000 square foot Residence District of the City of Wildwood's Zoning Code, except as specified below:
  - 1) Twenty (20) feet from any front yard area of any individual lot.
  - 2) Eight (8) feet from any side yard property line of any individual lot.
  - 3) Thirty (30) feet from any rear yard setback area. In instances of lots with double frontage, rear-yard distances shall be fifteen (15) feet.

Parking Setbacks - Residential

- b. All parking stalls or loading spaces, excluding points of ingress or egress and streets and roads, shall comply with the requirements of the Section 1003.112, R-1A 22,000 square foot Residence District of the City of Wildwood's Zoning Code.

Miscellaneous Setbacks

- c. No portion of any residential building foundation shall encroach within fifteen (15) feet of the 'Final Resource Protection Line.'

Access and Roadway Improvements

- d. Access to Strecker Road shall be limited to one (1) residential street approach located to provide required sight distance and constructed in accordance with City of Wildwood "Design Criteria Manual." All design components, improvement levels, and construction requirements shall also be as directed by the City of Wildwood Department of Public Works.

- e. Roadway improvements, including a turning lane, sidewalks, stormwater drainage facilities, tapers, street lighting and trees, and signage for Strecker Road shall conform to the requirements of the City of Wildwood's "Design Criteria Manual." These roadway improvements shall be constructed or installed as the sole responsibility of the developer of this tract of land. All work in the right-of-way must be reviewed and approved by the City of Wildwood Department of Public Works.

- f. Provide a sidewalk conforming to City of Wildwood ADA standards adjacent to Strecker Road constructed as part of this development. Sidewalks shall be placed on both sides of the pavement area. The installation and construction of these sidewalks shall be as directed by the Department of Public Works and be the sole responsibility of the developer of this residential subdivision.

- g. Dedicate a minimum fifty (50) foot right-of-way area to the City of Wildwood for public purposes and within this area construct a system of internal streets to serve the authorized number of lots. These internal streets shall minimally include a twenty-four (24) foot wide pavement surface, curb and gutter, six (6) foot wide sidewalks on both sides of the right-of-way, stormwater drainage facilities, and other items, as directed by the City of Wildwood Department of Public Works, unless otherwise modified by the Planning and Zoning Commission on the Site Development Plan. The specific design shall be indicated on the Site Development Plan submitted to the Planning and Zoning Commission for review and action.

- h. No individual residential driveway access to this development from Strecker Road will be permitted as part of this development.

Miscellaneous Roadway Requirements

- i. Installation of landscaping and ornamental entrance monument or identification signage, if proposed, shall be reviewed by the Department of Public Works for sight distance considerations and approved prior to its installation or construction.
- j. If required sight distance cannot be provided at the access location, acquisition of right-of-way, reconstruction of pavement, including correction to vertical alignment and other off-site improvements, may be required to provide the required sight distance as directed by the Department of Public Works.

Parking Requirements

- k. Parking spaces shall be provided as required by Section 1003.165 Off-Street Parking and Loading Requirements of the City of Wildwood Zoning Ordinance for the R-1A 22,000 square foot Residence District.

Landscape Requirements - Specific

- l. Landscaping shall adhere to all requirements of Chapter 410 of the City's Code and its accompanying Tree Manual, including the submittal of a Tree Preservation Plan in conjunction with the Site Development Plan.
- m. All streets and roads shall be appropriately landscaped, as required by the Chapter 410 Tree Preservation and Restoration Code, and be approved by the Planning and Zoning Commission on the Site Development Plan.
- n. The areas of existing vegetation within the P.R.D. Overlay District boundaries identified as to be retained shall be marked on the site prior to the commencement of any disturbance in accordance with the City of Wildwood's Chapter 410. These areas shall be indicated on the Site Development Plan submitted to the City of Wildwood for Planning and Zoning Commission review and approval. Existing mature tree canopy shall be preserved in accordance with the requirements of the City of Wildwood's Chapter 410 Tree Preservation and Restoration Code.
- o. Landscaping within the defined common ground areas shall comply with Chapter 410 Tree Preservation and Restoration Code requirements and accompanying Tree Manual. Those areas of common ground to be used for stormwater detention/retention shall comply with the Metropolitan St. Louis Sewer District requirements in this regard. These planting patterns shall minimally meet Bufferyard Standard 'E.'
- p. All landscape plans shall be signed and sealed by a Registered Landscape Architect for submittal and review by the City.

Signs

- q. Signs for this P.R.D. Overlay District shall be erected in accordance with the Section 1003.168 Sign Regulations of the City of Wildwood Zoning Ordinance for the R-1A 22,000 square foot Residence District.
- r. The location of all signage shall be as approved on the Site Development Plan by the Planning and Zoning Commission. Signage not located on common ground must be erected within a maintenance easement.

Lighting Requirements

- s. The location of all lighting standards shall be as approved on the Site Development Plan. No on-site illumination source shall exceed sixteen (16) feet in height or be so situated that light is cast directly on adjoining properties. Minimally, lighting levels and their design specifications shall be approved by the Director of Planning and subject to reasonable standards, which adhere to generally accepted principles and practices of this industry. Compliance to the regulations of the City's Lighting Code, Section 1003.169, in terms of design, equipment, and installation is mandatory.

Miscellaneous Conditions

- t. Parking, circulation, and other applicable site design features shall comply with Chapter 1101, Section 512.4 "Physically Handicapped and Aged" of the S.L.C.R.O. 1974, as amended.
- u. Hours of construction and grading activity shall be limited to 7:00 a.m. to 6:00 p.m. Monday through Friday, and 8:00 a.m. to 6:00 p.m. on Saturday. No development (grading and construction) activity shall be authorized on Sundays.
- v. All retaining walls exceeding two (2) feet in height per section or crossing individual property lines shall be constructed of an appropriate inter-locking concrete block system. Walls crossing property lines shall be located in a maintenance easement. The Planning and Zoning Commission, as part of the Site Development Plan review process, shall approve said materials and design.
- w. The location of all utility easements for proposed service to this development shall be as approved by the Planning and Zoning Commission on the Site Development Plan. Installation of utilities within the respective easements shall adhere to the requirements of the Natural Resource Protection Standards Analysis and, whenever practical, be placed in areas of existing or proposed disturbance relating to previous site activity or the construction of streets or building lots.
- x. All utilities serving this site shall be installed underground in accordance with the requirements of the City of Wildwood's Subdivision and Development Regulations.
- y. All improvements including, but not limited to, streets, roadways, sidewalks, other similar infrastructure features, and stormwater management facilities, along with lot configurations and placements, shall be required to be compatible and integrated into the design of the entire 18.3 acres comprising the subject site.

ISSUE	REMARKS/DATE
1	06/12/15 INITIAL SUBMITTAL

Claymont Development, LLC  
26 Pacland Estates Drive  
Chesterfield, Missouri 63005  
(636) 456-6195

THE STERLING ENGINEERS & SURVEYORS  
5055 New Baumgartner Road  
St. Louis, Missouri 63124-8844  
Ph 314.771.0000  
www.sterling-es-survey.com  
Corporate Certificate of Authority #001348

STRECKER FOREST  
CITY OF WILDWOOD, MISSOURI  
ORDINANCE

STATE OF MISSOURI  
JASON D. HOWELL  
PE-2007002801  
PROFESSIONAL ENGINEER

Date: 6/15/15  
Jason D. Howell, PE  
License No. 2007002801  
Civil Engineer

Job Number: 13-01-006  
Date: June 11, 2015  
Designed: Sheet  
Drawn: 5  
Checked: SCP

5. TRAFFIC GENERATION ASSESSMENT FEE

The developer shall contribute to the East Area Traffic Generation Assessment Trust Fund established by Section 140.210 of the City of Wildwood's Revised Codes. This assessment may be paid in full at the time of the first Zoning Authorization for any building or structure, or at the time of each Zoning Authorization for the individual dwellings. This contribution shall not exceed the amount established by multiplying the ordinance provided parking spaces by the following rate:

Table with 2 columns: Type of Development, Required Contribution. Row 1: Single Family Dwelling, \$820.06/Parking Space.

(Parking space as defined by Section 1003.168 of the City of Wildwood Zoning Code.)

If type of development proposed differ than those listed, rates shall be provided by the Department of Public Works.

The amount of this required contribution, if not submitted by January 1, 2006, shall be adjusted on that date and on the first day of January in each succeeding year thereafter in accordance with the construction cost index as determined by the City of Wildwood Department of Public Works.

6. VERIFICATIONS PRIOR TO APPROVAL OF THE SITE DEVELOPMENT PLAN

Prior to approval of the Site Development Plan, the developer shall provide the following: Stormwater Improvements

- a. Submit to the Planning and Zoning Commission an engineering plan approved by the Department of Public Works and the Metropolitan St. Louis Sewer District showing that adequate handling of the stormwater drainage of the site is provided. 1) The developer is required to provide adequate stormwater systems in accordance with the City of Wildwood and the Metropolitan St. Louis Sewer District standards. 2) All stormwater shall be discharged at an adequate natural discharge point. 3) Detention/retention of differential runoff of stormwater shall be required as specified by the Department of Public Works and the Metropolitan St. Louis Sewer District. 4) The Commission may require the stormwater plan and required facilities to include a connection to and contribution toward a regional stormwater system that may serve the affected watershed.

Geotechnical Report

- b. Provide a Geotechnical Report covering development and grading required by improvements involved with this site as directed by the Department of Public Works. Said report shall verify the adaptability of grading and improvements with soil and geologic conditions which are susceptible to rapid erosion, landslides, and/or creep. A statement of compliance with this study, signed by the Geotechnical Engineer preparing the report, shall be included on all Site Development Plans. The development and construction plans shall be designed to conform to the requirements and conditions of the Geotechnical Report. The Geotechnical Engineer shall be required to sign and seal all plans with a certification the proposed construction will be completed in accordance with the grading and soils requirements and conditions contained in the report.

Natural Resource Protection Standard Plans

- c. Provide a revised and final copy of the Natural Resource Protection Plan indicating all areas of the site, which are to be designated as protected and not developable. This revised and final copy of this map shall be reviewed and signed by a qualified soil scientist, who completed the analysis, and a statement indicating compliance with all the requirements of Section 1005.200 of the City of Wildwood's Subdivision and Development Regulations have been met.

Environmental Testing

- d. Before the approval of the Site Development Plan by the Planning and Zoning Commission, the developer shall participate and complete a State-managed clean-up of this site for all potential contaminants identified by the Phase II Environmental Assessment Report that was required by the City. The testing protocol must address all pertinent chemicals, compounds, materials, and contaminants and provide a systematic distribution of samples on the site, while meeting all of the Missouri Department of Natural Resources requirements, regulations, and protocol in this regard. The City and the Missouri Department of Natural Resources shall review results of the testing, prior to their acceptance and action on the Site Development Plan. The Planning and Zoning Commission shall incorporate this review as part of its consideration of the Site Development Plan.

Stormwater Pollution Prevention Plan

- e. Submit a Stormwater Pollution Prevention Plan, as part of the Site Development Plan review process, indicating compliance to Federal, State, and local requirements regarding the management of stormwater runoff to prevent siltation and erosion, both on-site and upon downstream properties.

7. RECORDING

Within sixty (60) days of approval of the Site Development Plan by the Planning and Zoning Commission, the approved plan shall be recorded with the St. Louis County Recorder of Deeds.

8. VERIFICATION PRIOR TO PERMITS

Notification to Department of Planning

- a. Subsequent to approval of the Site Development Plan and prior to issuance of any grading, foundation, or building permit, all approvals from the Department of Public Works, the Missouri Department of Natural Resources, and the Metropolitan St. Louis Sewer District must be received by the Department of Planning. b. Prior to the issuance of a foundation or building permit for any lot, which adjoins the common ground area and/or detention/retention basin, written certification from a Professional Engineer which verifies these areas are graded in accordance with the approved plans must be received by the Department of Planning.

Land Subdivision

- c. Record a proper subdivision of the property and comply with all other applicable Subdivision and Development Regulations sections affecting the development of land, except as otherwise specified by this ordinance.

Indentures

- d. With the filing of the record plat establishing separate lots, the developer shall record an approved indenture, which defines the necessary assessments and specific trustee obligations in accordance with provisions of Section 1003.173 and 1003.187 of the City of Wildwood Zoning Code and Section 1005.085 of the Subdivision and Development Regulations.

Sanitary Sewage System

- e. The developer shall provide verification from the Metropolitan St. Louis Sewer District that public sewer service has been provided to this site. Verification shall be in a form acceptable to the City of Wildwood in accordance with the provisions of the Section 1005.080 of the Subdivision and Development Regulations.

Escrow Requirements

- f. All improvement and landscaping costs shall be submitted to the City of Wildwood through the standard subdivision escrow procedures.

Traffic Generation Assessment

- g. Traffic generation assessment contributions shall be deposited with the City of Wildwood in the form of a cash escrow prior to the issuance of building permits. If development phasing is anticipated, the developer shall provide the traffic generation assessment contribution prior to issuance of building permits for each phase of the development.

Road Improvements

- h. Based upon the preliminary development plan, improvements to Strecker Road must be completed prior to issuance of the building permits in excess of thirty (30) percent of the total.

9. GENERAL DEVELOPMENT CONDITIONS

- a. Provide adequate temporary off-street parking for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked onto the pavement causing hazardous roadway and driving conditions.

- b. A grading permit is required prior to any grading on the site. No grading permit shall be issued by the City's Department of Public Works to the developer until such time the Improvement Plans have been approved. Interim stormwater drainage control in the form of siltation control measures is required.

- c. A copy of the most recently approved Site Development Plan for this P.R.D. Overlay District development shall be prominently displayed at all times in all sales offices for this development.

- d. The petitioner shall be responsible for obtaining all necessary permits from the Department of Natural Resources Clean Water Commission as they relate to the development of this tract of land.

- e. The developer is advised that utility companies will require compensation for relocation of their utility facilities within public rights-of-way. The developer should also be aware of extensive delays in utility company relocation adjustments. Such delays will not constitute a cause to allow occupancy prior to completion of infrastructure improvements.

- f. If cut and fill operations occur during a season not favorable for immediate establishment of a permanent ground cover, a fast germinating annual, such as rye or sudan grasses, shall be utilized to retard erosion.

- g. Failure to comply with any or all of the conditions of this ordinance shall be adequate cause for revocation of permits by issuing City of Wildwood Departments or Commissions.

- h. The Zoning Enforcement Officer of the City of Wildwood, Missouri, shall enforce the conditions of this ordinance in accordance with Site Development Plans approved by the Planning and Zoning Commission and the Department of Planning.

- i. Any other applicable zoning, subdivision, or other regulations or requirements of the City, whether in effect at the adoption of this ordinance or as may be hereinafter adopted, shall further apply to the development of this property as authorized by this Planned Residential Development Overlay District Ordinance, except as may be provided by law. Nothing herein shall be deemed a waiver of any subdivision, zoning, or other development regulation of the City whether by implication or reference.

- j. This zoning approval is conditioned on compliance with the Zoning Code, Subdivision and Development Regulations, and all applicable laws of the City. Such additional regulations are supplemental to the requirements herein and no modification of any applicable regulations shall result from this Planned Residential Development Overlay District, except where this ordinance has expressly modified such regulations by reference to the applicable provision authorizing such modification.

- k. The developer/owner or other applicable party shall provide to each prospective buyer of a lot within this development an explanation of the environmental history of the area and site and the steps taken relative to the City-required, State-managed clean-up of the same, in a form acceptable to the City, for signature and return to the Department of Planning. Additionally, language shall be included on the plat(s) indicating these same considerations, with the subdivision's trust indentures/restrictions also containing this information about the site's environmental history and the steps taken to mitigate the property under State guidelines and standards for the clean-up of sites identified on the National Priorities List of the United States Environmental Protection Agency.

Any land clearing, construction, or development involving the movement of earth shall be in accordance with the Storm Water Pollution Prevention Plan, and the person issued a Land Disturbance Permit assumes and acknowledges responsibility for compliance with the City of Wildwood Land Disturbance Code and the approved Storm Water Pollution Prevention Plan at the site of the permitted activity.

Developer

Section Three. This ordinance shall be in full force and effect on and after its passage and approval.

This Bill was passed and approved this \_\_\_ day of \_\_\_, 20\_\_\_ by the Council of the City of Wildwood, Missouri after having been read by title, or in full, two (2) times prior to passage.

Presiding Officer Edward L. Marshall, Mayor

ATTEST:

City Clerk City Clerk

This plan was approved by the City of Wildwood's Planning and Zoning Commission in accordance with the provisions of Section \_\_\_ of the Zoning Code. This plan shall be developed under the conditions herein prescribed by Ordinance \_\_\_ which was approved by the City Council of the City of Wildwood, Missouri on \_\_\_.

Joe Vujnich, Director of Planning

Date

I, Lynne Greene-Beldner, City Clerk of the City of Wildwood, St. Louis County, Missouri do hereby certify the Site Development Plan submitted for this residential development is required under Ordinance \_\_\_. Said ordinance of the City Council on \_\_\_.

Lynne Greene-Beldner, City Clerk

Owner's Script:

Wesley J. Byrne

In connection with a change in zoning for the following described property from N/U to R-1A.

A tract of land situated partly in the Southeast 1/4 of the Northeast 1/4 of Section 31, and partly in the Southwest 1/4 of the Northwest 1/4 of Section 32, Township 45 North, Range 4 East, St. Louis County, Missouri and described as follows:

Beginning at an old stone in the center line of Section 31 on the line between Sections 31 and 32; thence along the East-West center line of Section 31 South 89'42'00" West, a distance of 327.50 feet to the Southwest corner of property described in deed to Patricia V. and Gerald W. Primm, Trustees U/I, recorded in Book 8813, Page 2172, thence North 0'00'00" East, a distance of 20.00 feet to the North line of Strecker Road, 40 feet wide, thence along said North line of Strecker Road South 89'36'21" West, a distance of 208.71 feet to the East line of Strecker Farms Plot 1, per Plot Book 331, Pages 91 and 92; thence along East line of said Strecker Farms Plot 1, the following: North 0'00'00" East a distance of 625.62 feet, North 89'36'21" East, a distance of 208.71 feet and North 0'00'00" East, a distance of 686.36 feet to the South line of Turnberry Place Plot 2, per Plot Book 286, Page 88; thence along the South line of said Turnberry Place Plot 2 and the South line of Turnberry Place Plot 1, per Plot Book 283, Page 1 North 89'42'00" East, a distance of 327.50 feet, and North 89'08'00" East, a distance of 172.70 feet to the West line of Jerry Russell Bliss, recorded in Book 7451, Page 1135 and along the West line of David E. Krueger, recorded in Book 7989, Page 1413 South 0'00'00" East, a distance of 1,331.68 feet to the center line of Section 32; thence along the center line of Section 32 South 89'03'00" West, a distance of 175.45 feet to the point of beginning, and containing 18.3334 Acres, more or less.

Claymont Development LLC, the owner(s) of the property shown on this plan for and in consideration of being granted a permit to develop said property under the provisions of Section \_\_\_ (applicable subsection) of the City's Zoning Code and the \_\_\_ (present zoning), do hereby agree, declare, and covenant that from the date of recording of this plan, the property shall be developed only as shown herein. This covenant shall run with the land, and shall be enforceable pursuant to Sections 67.870 through 67.900 R.S. Mo. by the City of Wildwood or its successor as a plan of development adopted by the City of Wildwood's Planning and Zoning Commission to promote orderly development. This plan may be amended or supersede by the Planning and Zoning Commission or modified by the Department of Planning or voided by order of the City of Wildwood's City Council, each as more particularly authorized by the City of Wildwood's Zoning Code now and hereafter in effect.

Signature: Wesley J. Byrne-President

On this \_\_\_ day of \_\_\_, 2007, before me personally appeared Wesley J. Byrne, to me personally known, who being by me duly sworn did say that he is President of Claymont Development LLC, a Limited Liability Company of the State of Missouri, and that said instrument was signed and sealed on behalf of said Limited Liability Company, and said \_\_\_ acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have herewith set my hand and affixed my notarial seal the day and year first above written.

My Commission Expires: \_\_\_

Notary Public

All areas on this Site Development Plan identified as "Area to be preserved", shall be held in deed restricted private ownership which shall prohibit, in perpetuity, the development and/or subsequent subdivision of the resource protected property or their use for purposes inconsistent with the intent of Section 1005.200 of the Wildwood Subdivision and Development Regulations of the City of Wildwood, as they may be amended. These easements and deeds of covenants for all Resource Protected areas shall ensure to the benefit of, and may be enforced by, all lot owners of record of this subdivision and the City of Wildwood or its assignees.

This is to certify that during the month of \_\_\_, 20\_\_\_, I prepared a report regarding the soils and natural resource evaluation of the subject property. The report and information contained on this plan relating to some is in compliance with Section 1005.200, "NATURAL RESOURCE PROTECTION STANDARDS AND PROCEDURES" of the City of Wildwood, Missouri

Soil Scientist

Date

GEOTECHNICAL ENGINEER'S STATEMENT:

These plans have been reviewed by SCI Engineering, Inc. for their compliance regarding geotechnical recommendations relative to site development. Based on this review and available subsurface information, it is our opinion that the site may be constructed in accordance with the plans, good construction practices, and the recommendations given in the geotechnical report dated May, 1999.

We have not prepared any part of these plans and my seal on these plans is intended only to confirm my personal review and approval to the site grading plan as it relates to the stability of the earth slopes.

SCI Engineering, Inc., must be involved during the construction phase of this project in order to determine if subsurface conditions relative to site grading are implemented, and that other geotechnical aspects of site development are performed in accordance with these plans.

SCI Engineering, Inc.

The undersigned holder or legal owner of notes secured by deed recorded in Book \_\_\_, Page \_\_\_, of the St. Louis County Records, joins in and approves in every detail this "SITE DEVELOPMENT PLAN OF STRECKER FOREST" and subordinates its interest to the easements shown hereon.

STATE OF MISSOURI ) )SS

COUNTY OF ) )

On this \_\_\_ day of \_\_\_, 2007, before me appeared \_\_\_ to me personally known, who being by me duly sworn, did say he is \_\_\_ of \_\_\_ a corporation of the State of Missouri, and that the seal affixed to the foregoing instrument is the seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said \_\_\_ acknowledged said instrument to be the free act and deed of said corporation.

IN TESTIMONY WHEREOF, I have herewith set my hand and affixed my notarial seal the day and year above written.

My Commission Expires: \_\_\_

Notary Public

Table with 2 columns: ISSUE, REMARKS/DATE. Row 1: 1, 08/12/19 INITIAL SUBMITTAL.

Claymont Development, LLC
26 Peeland Estates Drive
Chesterfield, Missouri 63005
(636) 458-6155

THE STRECKER CO
ENGINEERS & SURVEYORS
5065 New Baumgartner Road
St. Louis, Missouri 63129
Ph 314-487-0440 Fax 314-487-4944
www.strecker-eng-survey.com
Corporate Certificate of Authority #001348

STRECKER FOREST
CITY OF WILDWOOD, MISSOURI
ORDINANCE



Date: 6/15/07
Jason D. Howell, PE
License No. 2007002801
Civil Engineer

Table with 2 columns: Job Number, Date, Sheet, Drawn, Checked. Row 1: 13-01-006, June 11, 2015, 6, SDP.

DEC 14 2007  
AT 10:00 A.M.  
RECORDER OF DEEDS  
ST. LOUIS COUNTY, MO

GENERAL NOTES: #682

# STRECKER FOREST 893

A TRACT OF LAND BEING PART OF THE SOUTHEAST 1/4  
OF THE NORTHEAST 1/4 OF SECTION 31 AND PART OF THE SOUTHWEST  
1/4 OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 45  
NORTH, RANGE 4 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI.

## Site Development Plan

- This site is in the following districts:  
Metropolitan St. Louis Sewer District  
Metro West Fire Protection District  
Rockwood R-6 School District
- This site is in following utility service areas:  
Missouri American Water Company  
Ameren UE  
AT&T  
Laclede Gas  
Charter Communications
- Sanitary sewer construction and connections shall be as approved by the Metropolitan St. Louis Sewer and in accordance with the standards construction specification for sewers and drainage facilities.
- Storm water design shall be designed pursuant to the City of Wildwood and Metropolitan St. Louis Sewer District requirements and discharge at an adequate natural discharge point.
- No slopes shall exceed 3 (horizontal) to 1 (vertical), unless justified by geotechnical report which has been accepted/approved by the City of Wildwood.
- The location of storm and sanitary sewer improvements are approximate only. Actual location shall be determined by field conditions and shall be indicated on the improvement plans.
- Grading shall be per City of Wildwood standards. Source of topographic information, aerial photogrammetric maps prepared by Sandborn, Inc. in February 2006.
- Street trees, street lights, and sidewalks shall be per City of Wildwood standards.
- Project identification sign shall have a maximum sign area of twenty-five (25) square feet, and a maximum height of ten (10) feet, and shall remain outside of the thirty (30) foot sight distance triangle.
- All sidewalks will be constructed to the City of Wildwood standards.
- M.S.D. Benchmark: 12-15 721.08-"Standard Tablet" stamped 11 GEU 1975 set in concrete post along Strecker Road 1 mile north of Manchester Road, 24' east of centerline Strecker Road and 26' north of driveway to #214 Strecker Road, 130' south of Timber Ridge Estates.
- Improve Strecker Road to one-half (1/2) of a twenty-four (24) foot pavement width, and an eight (8) foot soft shoulder, and a five (5) foot wide sidewalk, which meets City of Wildwood ADA standards.
- Road dedication will be provided as required by the City of Wildwood.
- No direct residential driveway access will be allowed from this development onto Strecker Road and all existing driveway areas will be restored.
- Entrance, street intersection and cul-de-sac shall be constructed to City of Wildwood standards.
- The light standards shall be 'Early American' provided by Ameren UE.

### DEVELOPMENT NOTES:

Locator numbers: 22U-33-0062  
22U-33-0031  
22U-24-0024

Existing "N-U"  
Proposed "R-1A" 22,000 sq. ft. Residence District, with a Planned Residential Development Overlay District.

Gross area of site: 18.26 Ac.  
Area of right-of-way: 1.61 Ac.  
Area of common ground: 7.24 Ac.  
Average lot size: 17,827 sq.ft.

Nearest Major Intersection: Site is on Strecker Road 1000± south-west of Timber Ridge Estates Drive.

DENSITY CALCULATIONS:  
(18.26 Ac. ÷ 1.61 Ac.) x (43,560 Sq.Ft./Ac.) = 22000 Sq.Ft./Lot

Maximum number of lots allowed: 32.97  
Number of Lots Proposed: 23

Lot Development Requirements:  
Building Line 20' min.  
Side Yard 8' min.  
Rear Yard 30' min.

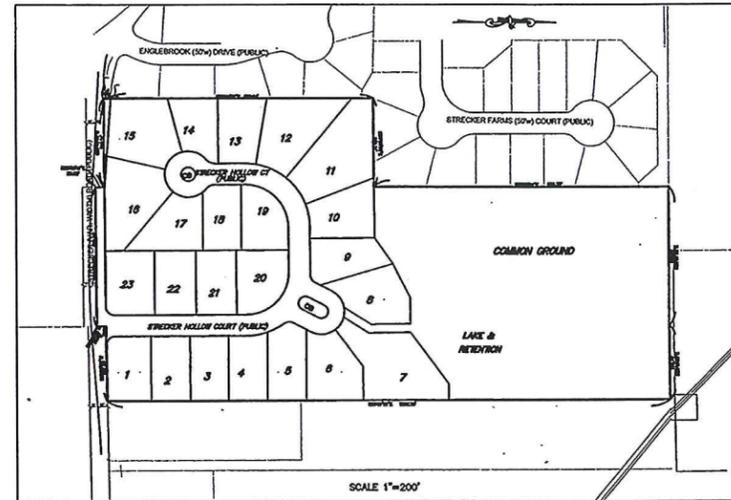
Number of Parking Spaces:  
2 per lot = 46

Proposed streets shall be public 26' wide pavement 50' wide R.O.W.

### SURVEYOR'S CERTIFICATE

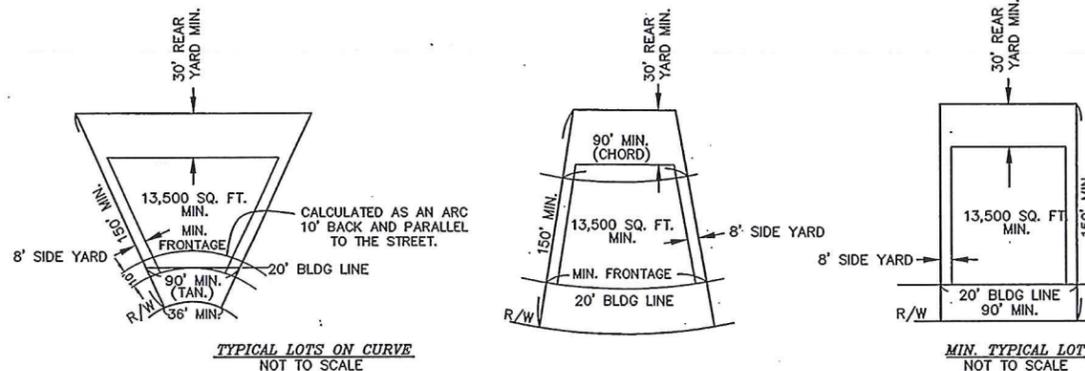
This is to certify that we have, during the month of December 1998, at the request of W. J. Byrne Builders, Inc., prepared a preliminary plat of "Strecker Forest". This preliminary plat outboundary was prepared from available records. This preliminary plat is a correct representation of all existing and proposed land divisions. This plan is not a survey and does not meet the "Missouri Minimum Standards for Property Boundary Surveys" (10 CSR 30-2 and 4 CSR 30-16 effective date December 1, 1994).

THE STERLING COMPANY  
15,233  
GEORGE J.  
Surveyor



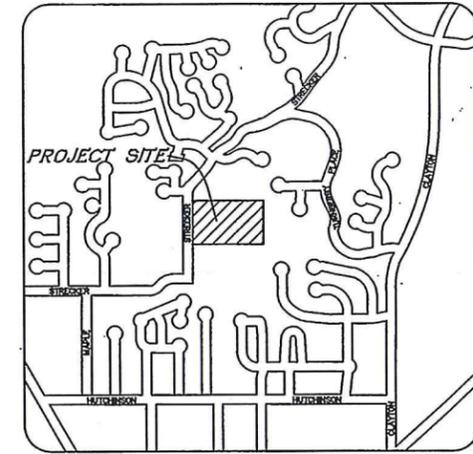
### INDEX OF SHEETS

- 1.1 COVER SHEET
- 2.1 SITE DEVELOPMENT PLAN
- 3.1 SITE SECTION
- 4.1 GRADING & SWPPP
- 5.1 SIGHT DISTANCE PLAN
- 6.1-6.2 SWPPP
- 7.1-7.2 ORDINANCE



APPROVED 1/8/07  
CITY OF WILDWOOD  
DEPARTMENT OF PLANNING  
SIGNED: *[Signature]*

DATE: 12-5-07



LOCATION MAP  
(NOT TO SCALE)

EXISTING	LEGEND	PROPOSED
542	CONTOURS	(542)
536	SPOT ELEVATIONS	(536)
[Symbol]	CENTER LINE	[Symbol]
[Symbol]	BUILDINGS, ETC.	[Symbol]
[Symbol]	TREE LINE	[Symbol]
[Symbol]	FENCE	[Symbol]
[Symbol]	STORM SEWERS	[Symbol]
[Symbol]	SANITARY SEWERS	[Symbol]
[Symbol]	CURB INLET	[Symbol]
[Symbol]	DOUBLE CURB INLET	[Symbol]
[Symbol]	AREA INLET	[Symbol]
[Symbol]	GRATED INLET	[Symbol]
[Symbol]	STORM MANHOLE	[Symbol]
[Symbol]	SANITARY MANHOLE	[Symbol]
[Symbol]	FLARED END SECTION	[Symbol]
[Symbol]	CLEANOUT	[Symbol]
[Symbol]	LATERAL CONNECTION	[Symbol]
[Symbol]	UTILITY OR POWER POLE	[Symbol]
[Symbol]	FIRE HYDRANT	[Symbol]
[Symbol]	TEST HOLE	[Symbol]
[Symbol]	PAVEMENT	[Symbol]
2'G	GAS MAIN & SIZE	(2'G)
6'W	WATER MAIN & SIZE	(6'W)
[Symbol]	TELEPHONE	(T)
[Symbol]	ELECTRIC (U) UNDERGROUND	(E)
[Symbol]	ELECTRIC (O) OVERHEAD	(OHW)
[Symbol]	FLOW LINE	[Symbol]
[Symbol]	TO BE REMOVED	TR
[Symbol]	TOP OF CURB	[Symbol]
[Symbol]	FLOW ARROW	[Symbol]
[Symbol]	LIGHT STANDARD	[Symbol]
[Symbol]	STREET SIGN/STOP SIGN	[Symbol]
[Symbol]	PARKING STALLS	P.S.
[Symbol]	YARD LIGHT	[Symbol]
[Symbol]	HANDICAP RAMP	HR
[Symbol]	TEMPORARY DRAINAGE SWALE	[Symbol]

STATE OF MISSOURI, }  
County of St. Louis }  
I, *[Signature]*,  
Recorder of Deeds  
Do hereby certify that the foregoing and annexed instrument of writing was filed for record in my office  
this 14th day of December, A. D. 2007, at 10:00 A.M. and is duly recorded in Plat Book 355, Page 893-501.  
Witness my hand and official seal on the day and year aforesaid.  
By: *[Signature]*  
Recorder of Deeds  
Deputy Recorder

PREPARED FOR: Claymont Development, LLC  
26 Pacland Estates Dr.  
Chesterfield, Missouri 63005  
(636) 458-6155

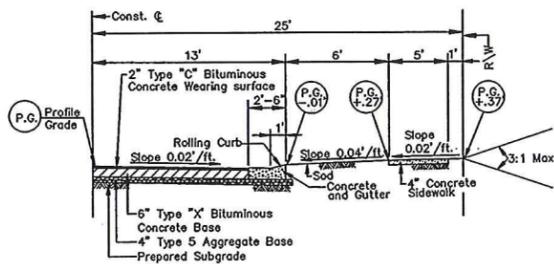
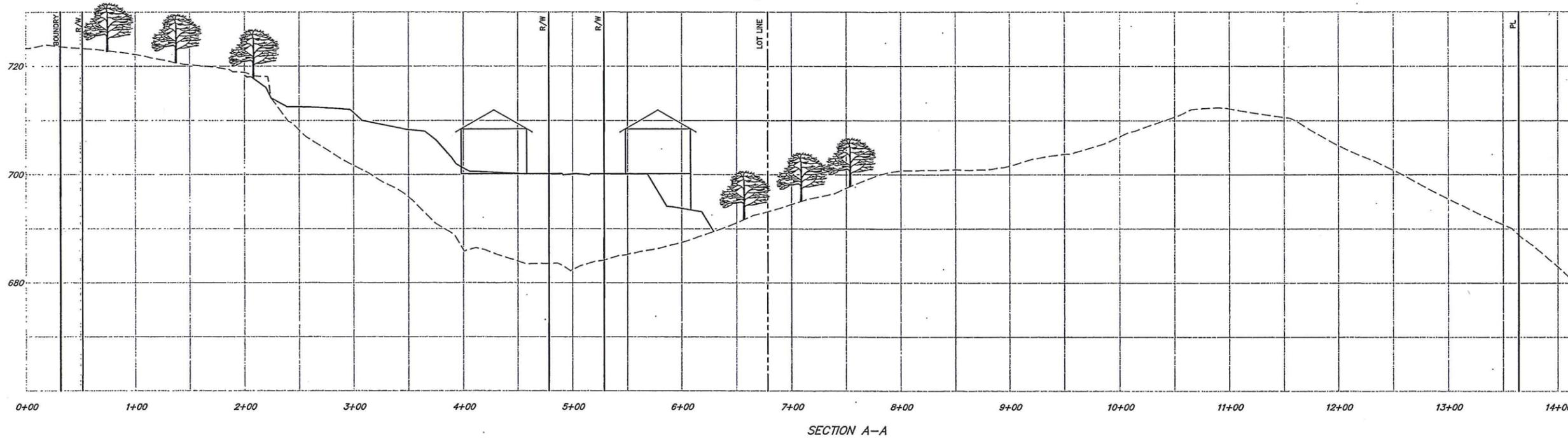
THE STERLING COMPANY  
ENGINEERS & SURVEYORS  
5055 NEW BALMINGTON ROAD  
ST. LOUIS, MISSOURI 63129  
(314) 487-0440 FAX 487-8844  
E-Mail: Sterling@sterling-eng-survey.com

PROJECT: Strecker Forest  
SHEET TITLE: Cover Sheet

NO. 98 11 266  
M.S.D. SHEET  
P# 1.1  
OF



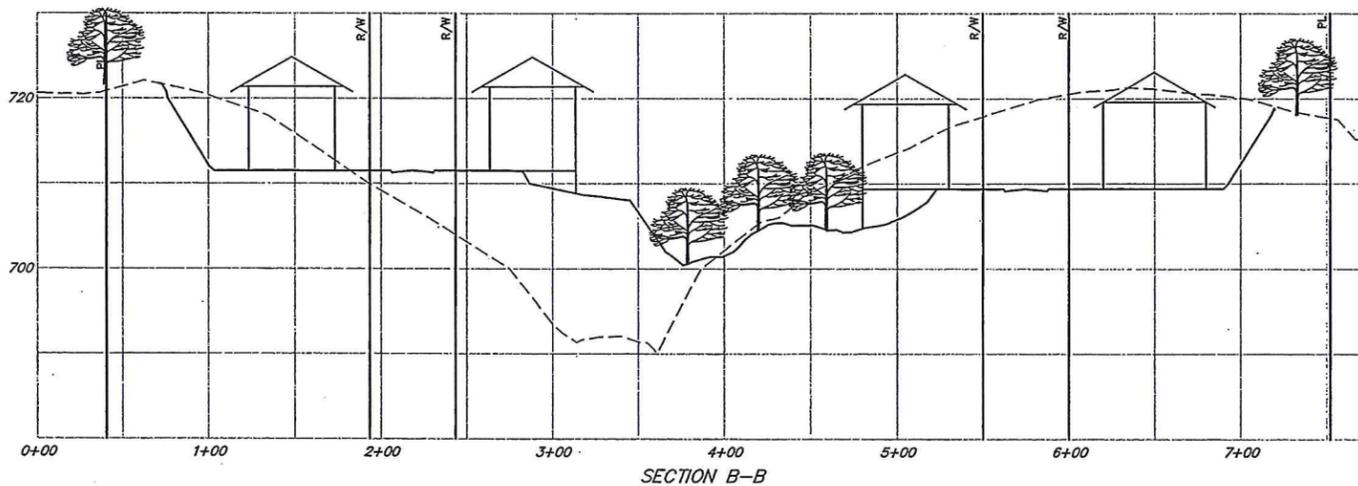
895



**LEGAL DESCRIPTION**

A tract of land being part of the Southeast 1/4 of the Northeast 1/4 of Section 31 and part of the Southwest 1/4 of the Northwest 1/4 of Section 32, Township 45 North, Range 4 East, City of Wildwood, St. Louis County Missouri and being more particularly described as follows:

Beginning at the Southwest corner of a tract of land described in a deed to David E. Krueger per deed book 7989 page 1413 of the St. Louis County records; said corner also being on the North line of Strecker (variable width) Road, said point being 20' North of centerline; thence with the said North line of Strecker Road, South 89°05'35" West 175.43 feet to a point on the common line between sections 31 and 32; said point also being an angle point in aforesaid Strecker Road; thence with said section line, South 00°00'43" East 20.00 feet to a stone found for the quarter section corner; thence with the East/West centerline of section 31 being also 15.00 North of and parallel to the centerline of said Strecker Road, South 89°42'40" West 328.28 to an angle point in said Strecker Road; thence North 00°02'41" East 20.00 feet to a point; thence with a line being 20.00 North of and parallel to aforesaid center section line and the said centerline of Strecker Road, South 89°42'40" West 208.71 feet to a point being the Southeast corner of a right of way dedication strip as shown on the plat of Strecker Farms Plat I as per the plat thereof recorded in Plat Book 331 Pages 91 & 92 of said records; thence with the East line of said Strecker Farms Plat I, North 00°02'41" East 626.14 feet, North 89°38'56" East 208.71 feet and North 00°02'41" East 686.36 feet to a stone found for the Northeast corner thereof; said corner also being on the South line of Turnberry Place Plat II per the plat thereof recorded in Plat Book 286 Page 88-91 of said records and being a point on the North line of the Southeast 1/4 of the Northeast 1/4 of Section 31; thence with the said quarter quarter section line, North 89°57'25" East 326.96 feet to the Northeast corner of the Southeast 1/4 of the Northeast 1/4 of Section 31 and being the Northwest corner of the Southwest 1/4 of the Northwest 1/4 of section 32; thence with said quarter quarter North 89°15'26" East 172.70 feet to the Northwest corner of a tract of land described in a deed to Jerry Russell Blies per deed book 7451 page 1135 of said records; thence with the West line thereof and its direct prolongation, South 00°07'51" East 1310.78 feet to the point of beginning and containing 795,283 square feet, (18.2571 acres) more or less according to a survey by the Sterling Company during the month of January, 2006.



HORIZONTAL 1"=50'  
VERTICAL 1"=10'

LOT	ACREAGE OF EXISTING TREES	ACREAGE OF TREES REMAINING	PERCENTAGE OF TREES REMAINING
1	.07	.02	29
2	.11	.03	27
3	.02	.02	100
4	.04	.01	25
5	.10	.01	10
6	.18	.10	55
7	.68	.31	46
8	.43	.01	2
9	.36	.05	14
10	.39	.17	44
11	.69	.38	55

LOT	ACREAGE OF EXISTING TREES	ACREAGE OF TREES REMAINING	PERCENTAGE OF TREES REMAINING
12	.53	.23	44
13	.31	.08	26
14	.17	.07	41
15	.16	.07	44
16	.12	.06	50
17	.11	0	0
18	.29	.03	10
19	.34	0	0
20	.22	.02	9
21	.14	.07	50
22	.05	0	0
23	.12	.05	42

SYMBOL	ACRES	% REQUIRED TO BE PRESERVED	ACRES REQUIRED TO BE PRESERVED	ACRES REQUIRED TO BE DISTURBED	ACRES PRESERVED	USABLE AREA
AREVE	2.02	50%	1.01	1.01	1.22	0.80
AVE	3.42	20%	0.68	2.74	0.96	2.46
AWE	0.72	20%	0.14	0.58	0.72	0.00
B4VE	6.64	50%	3.26	3.26	3.70	2.94
B4VE	0.34	50%	0.17	0.17	0.30	0.04
B2CA	0.39	100%	0.39	0.00	0.36	0.03
COVER	2.11	90%	1.90	0.21	0.80	1.31
CAVET	1.85	90%	1.67	0.18	1.78	0.07
D	0.72	100%	0.72	0.00	0.54	0.38
EPHEMERAL DRAINAGE	.12	100%	0.12	0.00	0	0.12
TOTAL	18.30	---	10.06	8.14	10.20	8.15

APPROVED 3-19  
CITY OF WILDWOOD  
DEPARTMENT OF PLANNING  
SIGNED: *[Signature]*  
DATE: 12-5-07

TREE PRESERVATION	
13.48 AC. OF TREES EXISTING	
5.34 AC. OF TREES REMOVED	
8.14 AC. OF TREES REMAIN	
TOTAL = 60.38% OF TREES PRESERVED	

ISSUE REMARKS/DATE

1	12/08/08
2	1/15/09 REVISED PER CITY OF WILDWOOD
3	2/22/09 SOIL SLOPE/LOT CHANGE
4	1/6/09 CHANGE PER CITY
5	1/22/09 Revised to 23 lots
6	4/5/08 REVISED PER CITY OF WILDWOOD
7	5/26/06 REVISED PER CITY OF WILDWOOD
8	8/8/06 REVISED PER CITY OF WILDWOOD
9	8/17/06 REVISED PER CITY OF WILDWOOD
10	10/29/07 REVISED PER CITY OF WILDWOOD COMMENTS

PREPARED FOR:  
**Claymont Development, LLC**  
26 Pacland Estates Dr.  
Chestfield, Missouri 63005  
(636) 458-8155

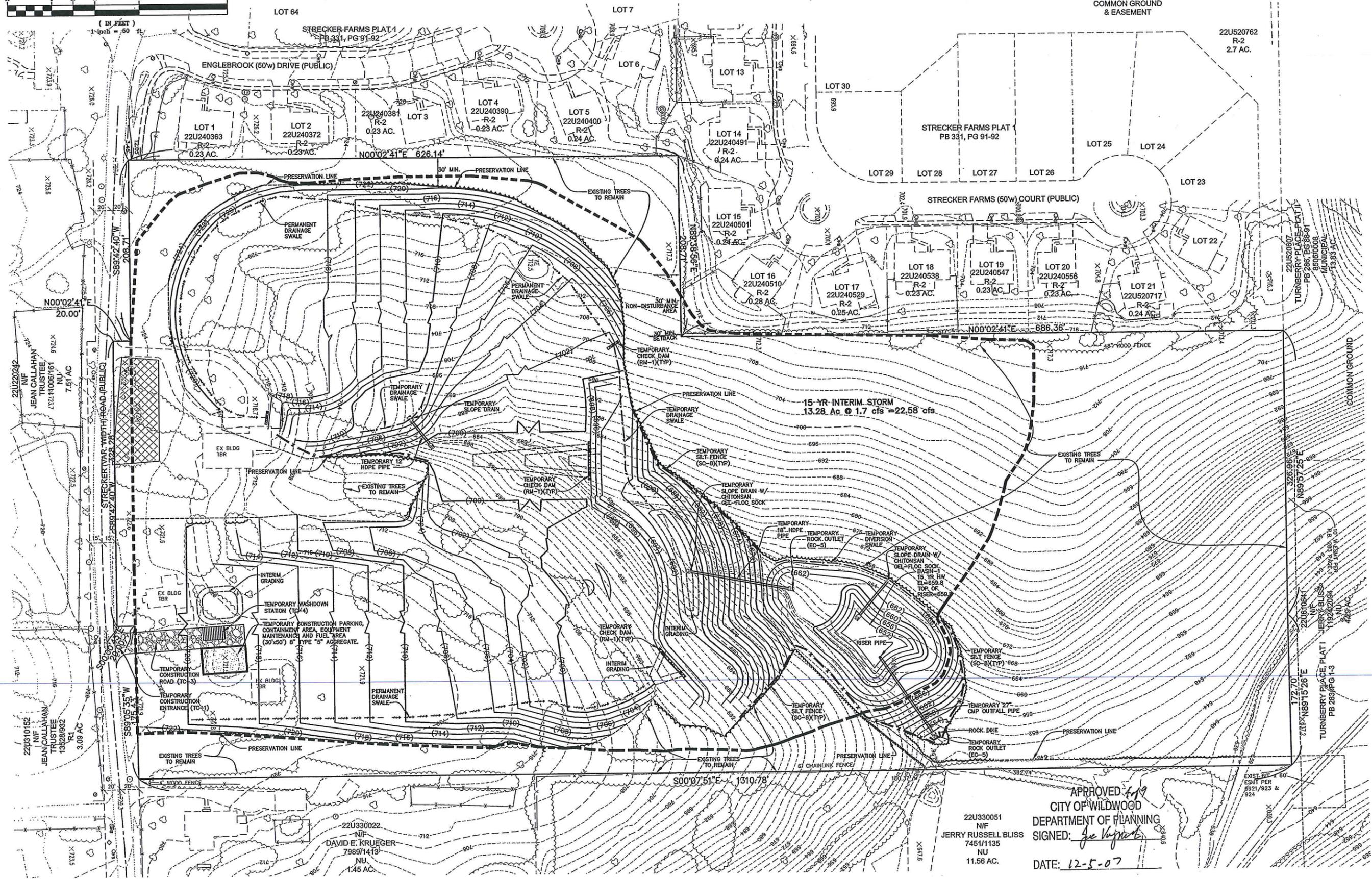
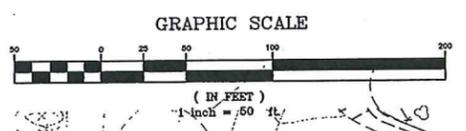
PREPARED BY:  
**THE STERLING CO.**  
ENGINEERS & SURVEYORS  
5055 NEW BAUMGARTNER ROAD  
ST. LOUIS, MISSOURI 63129  
(314) 487-0440 FAX 487-9944  
E-Mail: Sterling@sterling-eng-survey.com

DRAWN: [Blank]  
DESIGNED: [Blank]  
CHECKED: [Blank]

PROJECT: **Strecker Forest**  
SHEET TITLE: **Site Section**

NO. 11 266  
M.S.D. SHEET  
P# 3.1  
DIGITAL FILE LOCATION: SERVER-STERLING-2  
10/20/08

896



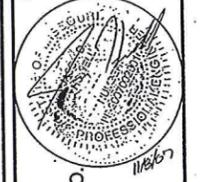
APPROVED FOR  
 CITY OF WILDWOOD  
 DEPARTMENT OF PLANNING  
 SIGNED: *Joe Vignone*  
 DATE: 12-5-07

22U330051  
 N/F  
 JERRY RUSSELL BLISS  
 7451/1135  
 NU  
 11.56 AC.

22U330022  
 N/F  
 DAVID E. KRUEGER  
 7989/1413  
 NU  
 1.45 AC.

ISSUE	REMARKS/DATE
1	12/08/08
2	1/16/09 REVISED PER CITY OF WILDWOOD
3	2/22/09 SOIL SLOPE/LOT CHANGE
4	6/9/09 CHANGE PER CITY
5	12/22/09 REVISED TO 23 LOTS
6	4/5/06 REVISED PER CITY OF WILDWOOD
7	5/24/06 REVISED PER CITY OF WILDWOOD
8	8/10/05 REVISED PER CITY OF WILDWOOD
9	8/17/05 REVISED PER CITY OF WILDWOOD
10	10/25/07 REVISED PER CITY OF WILDWOOD COMMENTS

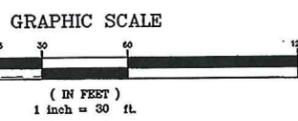
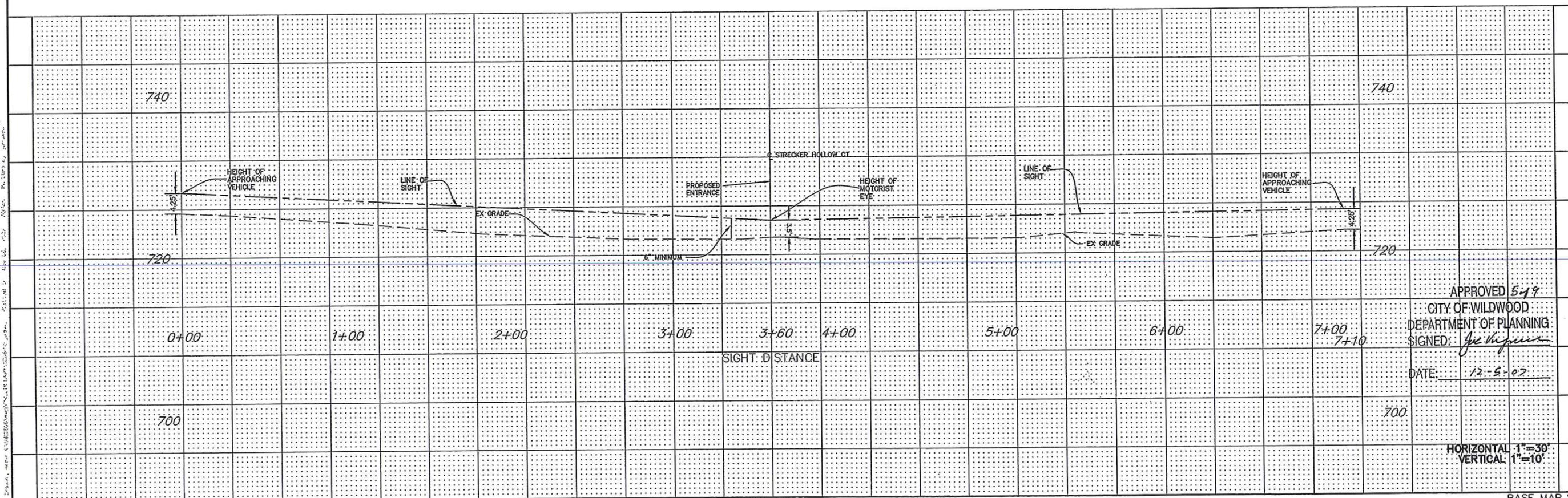
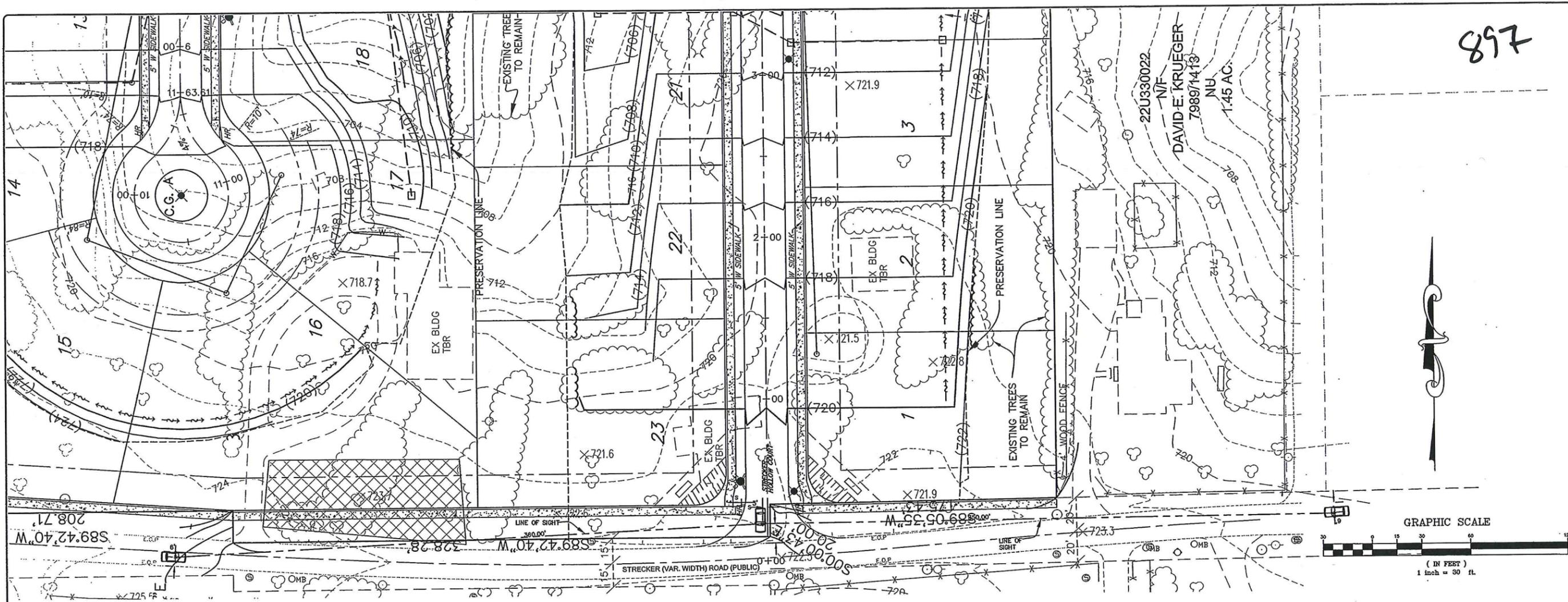
PREPARED FOR:  
**Claymont Development, LLC**  
 26 Pacland Estates Dr.  
 Chesterfield, Missouri 63005  
 (636) 458-6155



PREPARED BY:  
**THE STERLING CO.**  
 ENGINEERS & SURVEYORS  
 5055 NEW BALMGARTNER ROAD  
 ST. LOUIS, MISSOURI 63129  
 (314) 487-0440 FAX 487-8944  
 E-Mail: Sterling@sterling-eng-sur.com

DRAWN:	DESIGNED:	CHECKED:
<b>Strecker Forest</b>		
Grading & SwPPP		

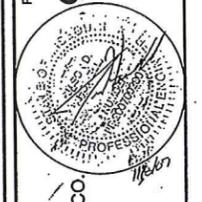
PROJECT NO.	98	11	266
M.S.D.	SHEET		
P#	4.1		
DIGITAL FILE LOCATION	OF		



ISSUE REMARKS/DATE

1	12/08/08
2	11/09/09 REVISED PER CITY OF WILDWOOD
3	2/22/09 SOIL SLOPELOT CHANGE
4	09/09 CHANGE PER CITY
5	02/22/09 Revised to 28.0%
6	1/5/05 REVISED PER CITY OF WILDWOOD
7	5/28/05 REVISED PER CITY OF WILDWOOD
8	8/17/05 REVISED PER CITY OF WILDWOOD
9	10/29/07 REVISED PER CITY OF WILDWOOD COMMENTS

PREPARED FOR:  
**Claymont Development, LLC**  
 26 Pacland Estates Dr.  
 Chesterfield, Missouri 63005  
 (636) 458-6155



PREPARED BY:  
**THE STERLING CO.**  
 ENGINEERS & SURVEYORS  
 5055 NEW BALMARTIN ROAD  
 ST. LOUIS, MISSOURI 63129  
 (314) 487-0440 FAX 487-8944  
 E-Mail: Sterling@sterling-eng-sur.com

PROJECT: **Strecker Forest**

SHEET TITLE: **Sight Distance Plan**

APPROVED **5-19**  
 CITY OF WILDWOOD  
 DEPARTMENT OF PLANNING  
 SIGNED: *[Signature]*  
 DATE: **12-5-07**

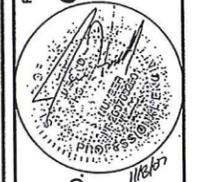
NO. **98 11 266**  
 M.S.D. SHEET  
 P# **5.1**  
 OF

DRAWN: \_\_\_\_\_  
 DESIGNED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_

898

ISSUE	REMARKS/DATE
1	12/08/07
2	1/15/08 REVISED PER CITY OF WILDWOOD
3	2/22/08 SOIL SI OFF/LOT CHANGE
4	6/09/08 CHANGE PER CITY
5	12/23/08 REVISED TO 23.0%
6	4/5/08 REVISED PER CITY OF WILDWOOD
7	5/28/08 REVISED PER CITY OF WILDWOOD
8	8/06/08 REVISED PER CITY OF WILDWOOD
9	8/17/08 REVISED PER CITY OF WILDWOOD
10	10/29/07 REVISED PER CITY OF WILDWOOD COMMENTS

PREPARED FOR:  
**Claymont Development, LLC**  
 26 Pacland Estates Dr.  
 Chesterfield, Missouri 63005  
 (636) 458-6155



PREPARED BY:  
**THE STERLING CO.**  
**ENGINEERS & SURVEYORS**  
 5955 NEW BAUMGARTNER ROAD  
 ST. LOUIS, MISSOURI 63128  
 (314) 487-0440 FAX 487-8944  
 E-Mail: Sterling@sterling-eng-sur.com

DRAWN: [Blank]  
 DESIGNED: [Blank]  
 CHECKED: [Blank]

PROJECT: **Strecker Forest**

SHEET TITLE: **SWPPP**

NO. 98	11	266
M.S.D. P#		SHEET 6.1
NATIONAL FILE LOCATION: 2007-0111-2		OF

**CONSTRUCTION SCHEDULE OF BMP'S:**

- Prior to clearing, siltation control devices are to be installed at the perimeter of the land disturbance as shown (some clearing may be required prior to installation).
- Install construction entrance, parking and washdown area. Construction parking area to be utilized as designated equipment, maintenance, and fuel area.
- Install BMP's during grading operations as required.
- Construct temporary sedimentation basins and traps.

**SEEDING SCHEDULE:**

Vegetation shall be established on exposed soil after a phase of rough or finished grading has been completed, or areas where no activity will occur for 30 days. See seeding rates this sheet.

**ESTIMATED SCHEDULE OF OPERATIONS:**  
 Proposed start of operations - November, 2007

Approximate duration's of:  
 Installing siltation control - ongoing throughout grading operations.  
 Rough grading - 1 mo. November, 2007  
 Removal of temporary BMP's - 2 week  
 Final grading, buildings & vegetation - 1 year

Note: Schedule duration's are subject to change due to weather conditions. Some operations will have overlapping time frames.

**ROUTINE INSPECTIONS & MAINTENANCE**

Inspection of all Best Management Practices (BMP) shall take place at least once per week and no later than 48 hours after heavy rain. The inspection will ensure proper installation, operation and maintenance of Best Management Practices (BMP) and will determine the overall effectiveness of the Storm Water Pollution Prevention Plan (SWPPP) and the need for additional control measures. Any necessary repair, maintenance, or modification of Best Management Practices (BMP) will take place immediately.

**CONTAINMENT FAILURE PLAN:**

In the event of any loss of contained sediment:

- Repair any damaged siltation control devices.
- Clean up any necessary silted areas.
- Restore any necessary silted areas.
- Provide documentation of actions and mandatory reporting to The City of Bridgeton Public Works.

**SEED BED PREPARATION METHOD:**

- Install upstream BMP's to protect areas to be seeded.
- Rough grade area and remove all debris larger than 3 inch in diameter and concentrated area of smaller debris.
- Install stabilization grids, if needed.
- Mix soil amendments (lime, fertilizer, etc.) into the top 3"-6" of soil as needed.
- Plant seed 1/4"-1/2" inch deep.
- Roll lightly to firm surface.
- Cover seeded area with mulch unless seeding completed during optimum spring and summer dates.
- Install additional stabilization (netting, bonded fiber matrix, etc.) as required.
- Water immediately - enough to soak 4" inches into soil without causing runoff.

**MULCHING:**

- Straw
- 2-2 1/2 tons per acre.
- Dry, Unwatered, void of weeds.
- Spread by Hand or Machine; Must be Tucked or Tied Down.

**STORM WATER POLLUTION PREVENTION PLAN**

- Prior to clearing and grubbing operations, interim siltation control devices shall be installed as shown on the attached plans.
- Schedule and limit clearing, grading, fill placement, and grubbing to minimize bare soil areas and time of exposure.
- Install siltation controls at toe of proposed slope and begin placement of fill.
- Benchmarks shall be set "fast" per plan elevation and concentration of surface water shall be avoided on the proposed slope.
- Siltation control devices shall be maintained at all times and concentrations of silt shall be removed as buildup occurs.
- Following construction of storm sewers, additional siltation controls shall be installed to protect the inlets.

**SILTATION CONTROL DETAILS/NOTES**

- Erosion and siltation controls are to be installed prior to any grading or construction operations shall be installed and inspected and maintained as necessary throughout the project to insure their proper function until acceptance of the work by the owner and/or controlling regulatory agency and adequate vegetative growth insures no further erosion of the soil.
- The maintenance of all siltation controls shall be the responsibility of the developer.
- All grading areas shall be protected from erosion by erosion control devices and/or seeding and mulching as required.
- Provide adequate off-street parking for construction employees. Parking in non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked onto the pavement causing hazardous roadway and driveway conditions.
- Where natural vegetation is removed during grading, vegetation shall be reestablished in such a density as to prevent erosion.
- Storm sewers, outlets and channels shall be protected by all barriers and kept free of waste and silt at all times prior to final surface stabilization and/or paving.
- The contractor shall be responsible for implementation of additional siltation controls based on inspection and evaluation of the effectiveness of the measures shown.
- Erosion and sediment control devices shall be sufficient to protect all off-site property from siltation and shall be installed prior to beginning of any grading or construction if able to be installed. These devices shall be maintained during construction activities.
- The details shown on this sheet are typical siltation control methods available for use. All of the standard details shown may or may not be used. See plans and soils engineer's recommendations for appropriate application and location.
- Additional siltation control devices may be required as directed by the City of Wildwood or as site conditions dictate.
- All grading areas shall be protected from erosion by erosion control devices and/or seeding and mulching as directed by the City of Wildwood.
- No completed grading area shall remain bare or unprotected for over 30 days.
- The engineer shall not be liable for damage caused by erosion or siltation due to defective siltation control devices, installation or maintenance.
- The owner assumes complete responsibility for installation/maintenance of project erosion control measures. The Owner shall employ whatever means necessary to control erosion and prevent soil from leaving the project site. Installation of erosion control measures shall commence with the start of grading operations and erosion controls shall be maintained throughout the life of the project until acceptance of the work by the Owner and the City of Wildwood. Deposited silt or mud on new or existing pavement, or in new or existing storm sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the Owner and the City of Wildwood.

**SEEDING REQUIREMENTS**

Permanent Seeding	Dates for Seeding											
	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Tall Fescue			O	O	O	O	O	O	O			
Smooth Brome			O	O	O	O	O	O	O			
Fescue & Brome			O	O	O	O	O	O	O			
Fescue, Ryegrass & Bluegrass	A	A	O	O	O	P	P	O	O	P	P	A

Temporary Seeding	Dates for Seeding											
	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Reed Sedge	A	A	O	O	O	O	O	O	O	O	A	A
Grass	A	A	O	O	O	O	O	O	O	O	A	A

O = Optimum seeding dates  
 A = Acceptable seeding dates  
 P = Permitted seeding dates with exceeding 2 inches rain - In July use 50% of seed and 75% of fertilizer. Record when additional 75% seed and remaining fertilizer

Permanent Seeding	Minimum Fertilizer and Seeding Rates	
	Pounds per acre	Pounds Per 1000 sq. ft.
Tall Fescue	200	7.0
Smooth Brome	200	4.8
Mix 1	200	5.7
Mix 2	200	4.8

Mix 1 = Tall Fescue @ 150 pounds per acre and Brome @ 50 pounds per acre  
 Mix 2 = Tall Fescue @ 100 pounds per acre, Smooth Brome @ 100 pounds per acre, and Kentucky Bluegrass @ 10 pounds per acre  
 \* Seeding rate for slopes in excess of 20% (5 ft. shall be 15 pounds per 1000 sq. ft.)

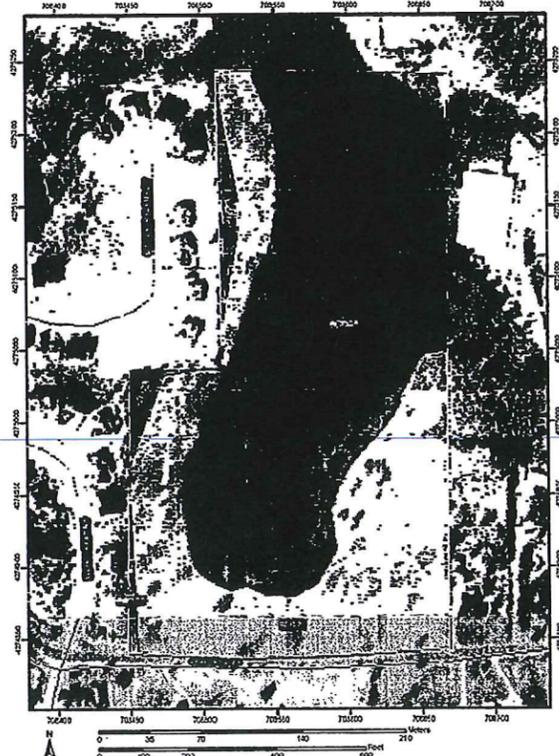
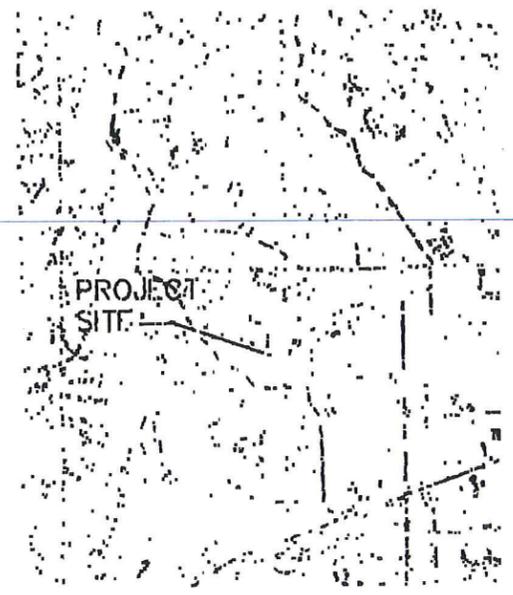
Temporary Seeding	Pounds per acre	
	Fertilizer	Seeds
Reed Sedge	100	3.5
Grass	200	2.5

Fertilizer	Permanent Seeding (pounds per acre)		Temporary Seeding (pounds per acre)	
	Nitrogen	Phosphorus	Nitrogen	Phosphorus
15-0-0	65	30	30	30
10-10-10	65	30	30	30
10-10-10	600	600	600	600

EM = Effective Mulch Application per State evaluation of control risk.

SHEET NO. 10  
 ST. LOUIS COUNTY AND ST. LOUIS CITY, MISSOURI  
 (UNOFFICIAL QUADRANGLE)



MAP LEGEND		MAP INFORMATION	
Area of Interest (AOI)	Interstate Highways	Original soil survey map sheets were prepared at publication scale. Varying scale and pricing scale, however, may vary from the original. Please rely on the bar scale on each map sheet for proper map measurements.	Source of Map: Natural Resources Conservation Service Web Soil Survey URL: <a href="http://websoilsurvey.nrcs.usda.gov">http://websoilsurvey.nrcs.usda.gov</a> Coordinate System: UTM Zone 15N This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Soil Survey Area: St. Louis County and St. Louis City, Missouri Survey Area Date: Version 6, Jun 18, 2007 Digital aerial images were photographed: 1998 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.
Area of Interest (AOI)	US Routes	State Highways	
Soil Map Units	Leaf Roads	Other Roads	
Soil Features	Water Features	Transportation	
Other Features	Other Features	Roads	

APPROVED 6/19/09  
 CITY OF WILDWOOD  
 DEPARTMENT OF PLANNING  
 SIGNED: [Signature]  
 DATE: 12-5-07

Map Unit Name

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
60005	Marble silt loam, 20 to 35 percent slopes	Marble silt loam, 20 to 35 percent slopes	10.3	55.2%
60231	Winfield silt loam, 0 to 14 percent slopes, eroded	Winfield silt loam, 0 to 14 percent slopes, eroded	7.8	40.6%
60223	Urban land-ferretter complex, 0 to 20 percent slopes	Urban land-ferretter complex, 0 to 20 percent slopes	0.0	3.1%
74607	Honeocreek silt loam, 2 to 5 percent slopes, occasionally flooded	Honeocreek silt loam, 2 to 5 percent slopes, occasionally flooded	0.2	0.9%
Totals for Area of Interest (AOI)			18.6	100.0%

**Description**  
 A soil map unit is a collection of soil areas or nonsoil areas (miscellaneous areas) delineated in a soil survey. Each map unit is given a name that uniquely identifies the unit in a particular soil survey area.

**Rating Options**  
 Aggregation Method: No Aggregation Necessary  
 Tie-break Rule: Lower



AMENDED BILL #1321 ORDINANCE #1321  
AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD AUTHORIZING AN AMENDMENT TO PLANNED RESIDENTIAL DEVELOPMENT OVERLAY DISTRICT ORDINANCE #1189 TO ADDRESS THE EXTENT OF PRESERVATION REQUIRED BY THE NATURAL RESOURCE PROTECTION STANDARDS BY ALLOWING A REDUCTION IN THE AMOUNT DUE TO A CALCULATION ERROR THAT WAS MADE, WHEN THIS TWENTY-THREE (23) LOT RESIDENTIAL SUBDIVISION WAS APPROVED. (Ward Two)

WHEREAS, the City Council approved a Planned Residential Development Overlay District in the R-1A 22,000 square foot Residence District for a 18.3 acre tract of land that allowed its development with twenty-three (23), single family dwellings on individual lots that were greater than 13,500 square feet in size; and

WHEREAS, the development of this residential subdivision was required to meet the Natural Resource Protection Standards of the City's Subdivision and Development Regulations, which indicated that approximately eight (8) acres of the site could be used for development purposes, such as building sites, roadways, other infrastructure improvements, and utility installations; and

WHEREAS, the amount of required preservation on this 18.3 acre site was calculated originally at over twelve (12) acres in size, which when combined with the area of the property allowed to be disturbed, exceeded the overall acreage of the tract of land; and

WHEREAS, this calculation error had to be addressed by reducing the amount of preservation area to the difference between the permitted eight (8) acres of disturbance and the overall size of the tract of land; and

WHEREAS, the change in the amount of required preservation area on this 18.3 acres was from twelve (12) acres to ten (10) acres, which is consistent with the overall size of the tract of land; and

WHEREAS, the change in the preservation amounts associated with this site does not increase the amount of overall site disturbance, but addresses the calculation error made by the Department of Planning, when it prepared the recommendation regarding this change in zoning and application of the Planned Residential Development Overlay District upon the subject site; and

WHEREAS, the Planning and Zoning Commission considered this request at its June 5, 2006 Executive Meeting and recommended approval of the amendment of the Planned Residential Development Overlay District Ordinance to accommodate this change due to the amount of preserved acres remained unaltered; and

WHEREAS, the City Council held a public hearing on June 26, 2006 and heard comments from all appropriate parties and endorsed the preparation of legislation to address this change in the preservation amount for this residential site relative to the Natural Resource Protection Standards, which was introduced on July 10, 2006; and

WHEREAS, as part of this consideration, the Planning and Zoning Commission, along with the City Council, chose not to apply the Public Space Ordinance requirements, nor reduce the density of the development due to the change in the "Suburban" Residential Area that occurred with the 2006 Update of Master Plan, since the need for the change in the site-specific ordinance was prompted by the error on the Department's part; and

WHEREAS, the City of Wildwood, on September 1, 1995, adopted specific ordinances, codes, and regulations enabling it to administer its zoning and subdivision authorities to benefit the health, safety, and general welfare of its residents.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AS FOLLOWS:

Section One. The City of Wildwood Zoning Ordinances and Official Zoning District Maps, which are made a part hereof, are hereby amended by enacting a change in Planned Residential Development Overlay District Ordinance #1189, as set forth in this ordinance for the following described land:

A tract of land situated partly in the Southeast 1/4 of the Northeast 1/4 of Section 31, and partly in the Southwest 1/4 of the Northwest 1/4 of Section 32, Township 45 North, Range 4 East, St. Louis County, Missouri and described as follows: Beginning at an old stone in the center line of Section 31 on the line between Sections 31 and 32; thence along the East-West center line of Section 31, South 89 degrees 42'00" West, a distance of 327.50 feet to the Southwest corner of property described in deed to Patricia V. and Gerald W. Primm, Trustees U/A, recorded in Book 8813, Page 2172, thence North, a distance of 20.00 feet to the North line of Strecker Road, 40 feet wide, thence along said North line of Strecker Road South 89 degrees 36'21" West, a distance of 208.71 feet to the East line of Strecker Farms Plat 1, per Plat Book 331, Pages 91 and 92; thence along East line of said Strecker Farms Plat 1, the following: North a distance of 625.62 feet, North 89 degrees 36'21" East, a distance of 208.71 feet and North a distance of 685.36 feet to the South line of Turnberry Place Plat 2, per Plat Book 286, Page 88; thence along the South line of said Turnberry Place Plat 2 and the South line of Turnberry Place Plat 1, per Plat Book 283, Page 1 North 89 degrees 42'00" East, a distance of 327.50 feet, and North 89 degrees 08'00" East, a distance of 172.70 feet to the West line of Jerry Russell Blies, recorded in Book 7451, Page 1135 and along the West line of David E. Krueger, recorded in Book 7989, Page 1413 South 00 degrees 07'00" East, a distance of 1,331.68 feet to the center line of Section 32; thence along the center line of Section 32 South 89 degrees 03'00" West, a distance of 175.45 feet to the point of beginning, and containing 18.334 acres, more or less.

Section Two. The zoning authority and approval embodied in this ordinance is granted subject to compliance with the Subdivision and Development Regulations, Zoning Code, and all other City of Wildwood ordinances, rules, and regulations and the conditions of this ordinance, except as, may be modified herein, upon the requirement the development and approved Site Development Plan are carried out in accordance with the recommendation forwarded to the City Council by the Planning and Zoning Commission within the communication dated June 5, 2006 which is incorporated herein by reference as if fully set forth in this ordinance. The zoning authority granted herein is further subject to the following conditions:

1. PERMITTED USES

This Planned Residential Development (P.R.D.) Overlay District shall authorize the maximum development of twenty-three (23), detached single family dwellings on individual lots, with common ground (a minimum of 7.15 acres of the 18.3 acre tract of land shall be used for this purpose), and all permitted accessory structures. A swimming pool and recreational complex may be provided as part of this development.

2. LOT SIZES, DEPTHS, AND BUILDING REQUIREMENTS

- a. Each dwelling unit shall be located on an individual lot of record, which shall not be less than thirteen thousand five hundred (13,500) square feet in overall size. The minimum width of any lot within this P.R.D. Overlay District shall be ninety (90) feet in distance at the front building line, except for parcels of ground located within any cul-de-sac. These lot frontages shall be as approved on the Site Development Plan by the Planning and Zoning Commission.
- b. The depth of all lots within this residential subdivision shall be a minimum one hundred fifty (150) feet, as measured from the edge of right-of-way.
- c. No building and/or structure shall be more than two (2) stories above final grade, as measured from the front building line on any individual lot at street elevation. This height restriction shall not apply to walk-out basements, when accessing any rear or side yard area of any permitted lot within this development.
- d. The maximum area of this 18.3 acre tract of land, which can be used for development and related land disturbance for the permitted and accessory uses, shall not exceed eight point one (8.1) ~~eight (8)~~ acres. No major or minor variance is granted, as part of these totals.
- e. The minimum amount of this 18.3 acre tract of land, which must be preserved as part of this development, shall be ten point two (10.2) ~~twelve point three (12.3)~~ acres in overall size. No major or minor variance is granted, as part of these totals.
- f. If a recreational facility is provided, it shall minimally include an in-ground swimming pool, cabana, and bathhouse, along with related parking and amenities. The facility shall be located in a common ground area and long-term care and maintenance of it shall be detailed in the development's trust indenture.

3. PLAN SUBMITTAL REQUIREMENTS

Within twelve (12) months of the P.R.D. District Overlay approval by the City Council, and prior to any site disturbance, the developer shall submit to the Planning and Zoning Commission for their review and recommendation a Site Development Plan. The City Council shall review this recommendation and take final action on the plan. Where due cause is shown by the developer, this time interval may be extended once by the Planning and Zoning Commission in accordance with requirements of Section 1003.187 of the City of Wildwood Zoning Code. Said Site Development Plan shall include, but not be limited to, the following information:

- a. Outboundary plot and legal description of the property.
- b. A general numbered lot plan with setback lines from all streets and roadways on and adjacent to the property. A typical configuration for a lot indicating all site design information such as, but not limited to, right-of-way widths, improvement dimensions and locations, setbacks, and building placements, along with a minimum and maximum sizes.
- c. The location and size of all residential drives, pavement widths, and right-of-way dedications of all internal roadway improvements.
- d. A general plan indicating setback lines along the perimeter of the subject tract of land and surrounding property lines and related improvements within four hundred (400) feet of this site's boundaries.
- e. Location of all roadways adjacent to the property, including required roadway right-of-way dedication and pavement widening with existing and proposed improvements, and general location, size, right-of-way, and pavement width of all interior drives.
- f. The location and size of all freestanding signs, lighting, fences, sidewalks, and other above ground structures, except retaining walls less than two (2) feet in height per section.
- g. Existing and proposed contours at vertical intervals of not more than two (2) feet.
- h. General location of sanitary sewer and stormwater facilities.
- i. Parking and density calculations.
- j. Conceptual location and size of common ground areas.
- k. A Landscape Plan including, but not limited to, the location, size, and general type of plant materials to be used in accordance with the City of Wildwood's Chapter 410 and accompanying Tree Manual.
- l. An inventory of the percent of tree canopy or individual trees to be retained on the site indicated on a Tree Preservation Plan completed in accordance with the City of Wildwood Chapter 410 Tree Preservation and Restoration Code and accompanying Tree Manual.
- m. Location of all existing and proposed easements.
- n. All other information not mentioned above, but required on a preliminary plat in accordance with Section 1005.060 of the City of Wildwood Subdivision and Development Regulations.

4. SITE DEVELOPMENT PLAN DESIGN CRITERIA

The above Site Development Plan shall adhere to the following specific design criteria:

Building Setbacks - Residential

- a. Any building or structure, other than boundary and/or retaining walls, fences, detention facilities, and/or light standards, shall adhere to the following setbacks of Section 1003.112 R-1A 22,000 square foot Residence District of the City of Wildwood's Zoning Code, except as specified below:
  - 1) Twenty (20) feet from any front yard area of any individual lot.
  - 2) Eight (8) feet from any side yard property line of any individual lot.
  - 3) Thirty (30) feet from any rear yard setback area. In instances of lots with double frontage, rear yard distances shall be fifteen (15) feet.

Parking Setbacks - Residential

- b. All parking stalls or loading spaces, excluding points of ingress or egress and streets and roads, shall comply with the requirements of the Section 1003.112 R-1A 22,000 square foot Residence District of the City of Wildwood's Zoning Code.

Miscellaneous Setbacks

- c. No portion of any residential building foundation shall encroach within fifteen (15) feet of the "Final Resource Protection Line."

Access and Roadway Improvements

- d. Access to Strecker Road shall be limited to one (1) residential street approach located to provide required sight distance and constructed in accordance with City of Wildwood "Design Criteria Manual." All design components, improvement levels, and construction requirements shall also be as directed by the City of Wildwood Department of Public Works.

- e. Roadway improvements, including a turning lane, sidewalks, stormwater drainage facilities, tapers, street lighting and trees, and signage for Strecker Road shall conform to the requirements of the City of Wildwood's "Design Criteria Manual." These roadway improvements shall be constructed or installed as the sole responsibility of the developer of this tract of land. All work in the right-of-way must be reviewed and approved by the City of Wildwood Department of Public Works.
- f. Provide a sidewalk conforming to City of Wildwood ADA standards adjacent to Strecker Road constructed as part of the development. Sidewalks shall be placed on both sides of the pavement area. The installation and construction of these sidewalks shall be as directed by the Department of Public Works and be the sole responsibility of the developer of this residential subdivision.
- g. Dedicate a minimum fifty (50) foot right-of-way area to the City of Wildwood for public purposes and within this area construct a system of internal streets to serve the authorized number of lots. These internal streets shall minimally include a twenty-four (24) foot wide pavement surface, curb and gutter, six (6) foot wide sidewalks on both sides of the right-of-way, stormwater drainage facilities, and other items, as directed by the City of Wildwood Department of Public Works, unless otherwise modified by the Planning and Zoning Commission on the Site Development Plan. The specific design shall be indicated on the Site Development Plan submitted to the Planning and Zoning Commission for review and action.
- h. No individual residential driveway access to this development from Strecker Road will be permitted as part of this development.

Miscellaneous Roadway Requirements

- i. Installation of landscaping and ornamental entrance monument or identification signage, if proposed, shall be reviewed by the Department of Public Works for sight distance considerations and approved prior to its installation or construction.
- j. If required sight distance cannot be provided at the access location, acquisition of right-of-way, reconstruction of pavement, including correction to vertical alignment and other off-site improvements, may be required to provide the required sight distance as directed by the Department of Public Works.

Parking Requirements

- k. Parking spaces shall be provided as required by Section 1003.165 Off-Street Parking and Loading Requirements of the City of Wildwood Zoning Ordinance for the R-1A 22,000 square foot Residence District.

Landscape Requirements - Specific

- l. Landscaping shall adhere to all requirements of Chapter 410 of the City's Code and its accompanying Tree Manual, including the submittal of a Tree Preservation Plan in conjunction with the Site Development Plan.
  - m. All streets and roads shall be appropriately landscaped, as required by the Chapter 410 Tree Preservation and Restoration Code, and be approved by the Planning and Zoning Commission on the Site Development Plan.
  - n. The areas of existing vegetation within the P.R.D. Overlay District boundaries identified as to be retained shall be marked on the site prior to the commencement of any disturbance in accordance with the City of Wildwood's Chapter 410. These areas shall be indicated on the Site Development Plan submitted to the City of Wildwood for Planning and Zoning Commission review and approval. Existing mature tree canopy shall be preserved in accordance with the requirements of the City of Wildwood's Chapter 410 Tree Preservation and Restoration Code.
  - o. Landscaping within the defined common ground areas shall comply with Chapter 410 Tree Preservation and Restoration Code requirements and accompanying Tree Manual. Those areas of common ground to be used for stormwater detention/retention shall comply with the Metropolitan St. Louis Sewer District requirements in this regard. These planting patterns shall minimally meet Bufferyard Standard 'E'.
  - p. All landscape plans shall be signed and sealed by a Registered Landscape Architect for submittal and review by the City.
- Signs
- q. Signs for this P.R.D. Overlay District shall be erected in accordance with the Section 1003.168 Sign Regulations of the City of Wildwood Zoning Ordinance for the R-1A 22,000 square foot Residence District.
  - r. The location of all signage shall be as approved on the Site Development Plan by the Planning and Zoning Commission. Signage not located on common ground must be erected within a maintenance easement.

Lighting Requirements

- s. The location of all lighting standards shall be as approved on the Site Development Plan. No on-site illumination source shall exceed sixteen (16) feet in height or be so situated that light is cast directly on adjoining properties. Minimally, lighting levels and their design specifications shall be approved by the Director of Planning and subject to reasonable standards, which adhere to generally accepted principles and practices of this industry. Compliance to the regulations of the City's Lighting Code, Section 1003.169, in terms of design, equipment, and installation is mandatory.

Miscellaneous Conditions

- t. Parking, circulation, and other applicable site design features shall comply with Chapter 1101, Section 512.4 "Physically Handicapped and Aged" of the S.L.C.R.O. 1974, as amended.
- u. Hours of construction and grading activity shall be limited to 7:00 a.m. to 6:00 p.m. Monday through Friday, and 8:00 a.m. to 6:00 p.m. on Saturday. No development (grading and construction) activity shall be authorized on Sundays.
- v. All retaining walls exceeding two (2) feet in height per section or crossing individual property lines shall be constructed of an appropriate inter-locking concrete block system. Walls crossing property lines shall be located in a maintenance easement. The Planning and Zoning Commission, as part of the Site Development Plan review process, shall approve said materials and design.
- w. The location of all utility easements for proposed service to this development shall be as approved by the Planning and Zoning Commission on the Site Development Plan. Installation of utilities within the respective easements shall adhere to the requirements of the Natural Resource Protection Standards Analysis and, whenever practical, be placed in areas of existing or proposed disturbance relating to previous site activity or the construction of streets or building lots.
- x. All utilities serving this site shall be installed underground in accordance with the requirements of the City of Wildwood's Subdivision and Development Regulations.
- y. All improvements including, but not limited to, streets, roadways, sidewalks, other similar infrastructure features, and stormwater management facilities, along with lot configurations and placements, shall be required to be compatible and integrated into the design of the entire 18.3 acres comprising the subject site.

900

ISSUE	REMARKS/DATE
1	12/08/06
2	1/19/07 REVISED PER CITY OF WILDWOOD
3	2/22/07 SOIL SLOPE/PILOT CHANGE
4	6/09/09 CHANGE PER CITY
5	12/22/09 Revised to 23 lots
6	4/6/06 REVISED PER CITY OF WILDWOOD
7	5/26/06 REVISED PER CITY OF WILDWOOD
8	8/8/06 REVISED PER CITY OF WILDWOOD
9	8/17/06 REVISED PER CITY OF WILDWOOD
10	10/29/07 REVISED PER CITY OF WILDWOOD COMMENTS

PREPARED FOR:  
**Claymont Development, LLC**  
26 Pacland Estates Dr.  
Chesterfield, Missouri 63005  
(636) 456-6155



PREPARED BY:  
**THE STERLING CO.**  
ENGINEERS & SURVEYORS  
3085 NEW BALMARTINER ROAD  
ST. LOUIS, MISSOURI 63129  
(314) 487-0440 FAX 487-8944  
E-Mail: Sterling@sterling-eng-sur.com

DRAWN: \_\_\_\_\_  
DESIGNED: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
PROJECT: **Strecker Forest**  
SHEET TITLE: **Ordinance**

APPROVED 8/8/09  
CITY OF WILDWOOD  
DEPARTMENT OF PLANNING  
SIGNED: *[Signature]*

DATE: 12-5-07

NO.	98	11	266
M.S.D.			SHEET
P#			7.1
DIGITAL FILE LOCATION	SERVER-STERLING-2		
DATE	12/08/06		
OF			

5. TRAFFIC GENERATION ASSESSMENT FEE

The developer shall contribute to the East Area Traffic Generation Assessment Trust Fund established by Section 140.210 of the City of Wildwood's Revised Codes. This assessment may be paid in full at the time of the first Zoning Authorization for any building or structure, or at the time of each Zoning Authorization for the individual dwellings. This contribution shall not exceed the amount established by multiplying the ordinance provided parking spaces by the following rate:

Table with 2 columns: Type of Development, Required Contribution. Row 1: Single Family Dwelling, \$820.06/Parking Space

(Parking space as defined by Section 1003.168 of the City of Wildwood Zoning Code.)

If type of development proposed differ than those listed, rates shall be provided by the Department of Public Works.

The amount of this required contribution, if not submitted by January 1, 2008, shall be adjusted on that date and on the first day of January in each succeeding year thereafter in accordance with the construction cost index as determined by the City of Wildwood Department of Public Works.

6. VERIFICATIONS PRIOR TO APPROVAL OF THE SITE DEVELOPMENT PLAN

Prior to approval of the Site Development Plan, the developer shall provide the following: Stormwater Improvements

a. Submit to the Planning and Zoning Commission an engineering plan approved by the Department of Public Works and the Metropolitan St. Louis Sewer District showing that adequate handling of the stormwater drainage of the site is provided.

- 1) The developer is required to provide adequate stormwater systems in accordance with the City of Wildwood and the Metropolitan St. Louis Sewer District standards.
2) All stormwater shall be discharged at an adequate natural discharge point. Sinkholes are not considered appropriate discharge points.
3) Detention/retention of differential runoff of stormwater shall be required as specified by the Department of Public Works and the Metropolitan St. Louis Sewer District.
4) The Commission may require the stormwater plan and required facilities to include a connection to and contribution toward a regional stormwater system that may serve the affected watershed, which may include construction or utilization of on-site or off-site facilities.

Geotechnical Report

b. Provide a Geotechnical Report covering development and grading required by improvements involved with this site as directed by the Department of Public Works. Said report shall verify the adaptability of grading and improvements with soil and geologic conditions which are susceptible to rapid erosion, landslide, and/or creep.

Natural Resource Protection Standard Plans

c. Provide a revised and final copy of the Natural Resource Protection Plan indicating all areas of the site, which are to be designated as protected and not developable. This revised and final copy of this map shall be reviewed and signed by a qualified soil scientist, who completed the analysis, and a statement indicating compliance with all the requirements of Section 1005.200 of the City of Wildwood's Subdivision and Development Regulations have been met.

Environmental Testing

d. Before the approval of the Site Development Plan by the Planning and Zoning Commission, the developer shall participate and complete a State-managed clean-up of this site for all potential contaminants identified by the Phase II Environmental Assessment Report that was required by the City. The testing protocol must address all pertinent chemicals, compounds, materials, and contaminants and provide a systematic distribution of samples on the site, while meeting all of the Missouri's Department of Natural Resources requirements, regulations, and protocol in this regard.

Stormwater Pollution Prevention Plan

e. Submit a Stormwater Pollution Prevention Plan, as part of the Site Development Plan review process, indicating compliance to Federal, State, and local requirements regarding the management of stormwater runoff to prevent siltation and erosion, both on-site and upon downstream properties.

7. RECORDING

Within sixty (60) days of approval of the Site Development Plan by the Planning and Zoning Commission, the approved plan shall be recorded with the St. Louis County Recorder of Deeds.

8. VERIFICATION PRIOR TO PERMITS

Notification to Department of Planning

a. Subsequent to approval of the Site Development Plan and prior to issuance of any grading, foundation, or building permit, all approvals from the Department of Public Works, the Missouri Department of Natural Resources, and the Metropolitan St. Louis Sewer District must be received by the Department of Planning.

b. Prior to the issuance of a foundation or building permit for any lot, which adjoins the common ground area and/or detention/retention basin, written certification from a Professional Engineer which verifies these areas are graded in accordance with the approved plans must be received by the Department of Planning.

Land Subdivision

c. Record a proper subdivision of the property and comply with all other applicable Subdivision and Development Regulations sections affecting the development of land, except as otherwise specified by this ordinance.

Indentures

d. With the filing of the record plat establishing separate lots, the developer shall record an approved indenture, which defines the necessary assessments and specific trustee obligations in accordance with provisions of Section 1003.173 and 1003.187 of the City of Wildwood Zoning Code and Section 1005.095 of the Subdivision and Development Regulations.

Sanitary Sewage System

e. The developer shall provide verification from the Metropolitan St. Louis Sewer District that public sewer service has been provided to this site. Verification shall be in a form acceptable to the City of Wildwood in accordance with the provisions of the Section 1005.080 of the Subdivision and Development Regulations.

Escrow Requirements

f. All improvement and landscaping costs shall be submitted to the City of Wildwood through the standard subdivision escrow procedures.

Traffic Generation Assessment

g. Traffic generation assessment contributions shall be deposited with the City of Wildwood in the form of a cash escrow prior to the issuance of building permits. If development phasing is anticipated, the developer shall provide the traffic generation assessment contribution prior to issuance of building permits for each phase of the development.

Road Improvements

h. Based upon the preliminary development plan, improvements to Strecker Road must be completed prior to issuance of the building permits in excess of thirty (30) percent of the total.

9. GENERAL DEVELOPMENT CONDITIONS

a. Provide adequate temporary off-street parking for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked onto the pavement causing hazardous roadway and driving conditions.

b. A grading permit is required prior to any grading on the site. No grading permit shall be issued by the City's Department of Public Works to the developer until such time the Improvement Plans have been approved. Interim stormwater drainage control in the form of siltation control measures is required.

c. A copy of the most recently approved Site Development Plan for this P.R.D. Overlay District development shall be prominently displayed at all times in all sales offices for this development.

d. The petitioner shall be responsible for obtaining all necessary permits from the Department of Natural Resources Clean Water Commission as they relate to the development of this tract of land.

e. The developer is advised that utility companies will require compensation for relocation of their utility facilities within public rights-of-way. The developer should also be aware of extensive delays in utility company relocation and adjustments. Such delays will not constitute a cause to allow occupancy prior to completion of infrastructure improvements.

f. If cut and fill operations occur during a season not favorable for immediate establishment of a permanent ground cover, a fast germinating annual, such as rye or sudan grasses, shall be utilized to retard erosion.

g. Failure to comply with any or all of the conditions of this ordinance shall be adequate cause for revocation of permits by Issuing City of Wildwood Departments or Commissions.

h. The Zoning Enforcement Officer of the City of Wildwood, Missouri, shall enforce the conditions of this ordinance in accordance with Site Development Plans approved by the Planning and Zoning Commission and the Department of Planning.

i. Any other applicable zoning, subdivision, or other regulations or requirements of the City, whether in effect at the adoption of this ordinance or as may be hereinafter adopted, shall further apply to the development of this property as authorized by this Planned Residential Development Overlay District Ordinance, except as may be provided by law. Nothing herein shall be deemed a waiver of any subdivision, zoning, or other development regulation of the City whether by implication or reference.

j. This zoning approval is conditioned on compliance with the Zoning Code, Subdivision and Development Regulations, and all applicable laws of the City. Such additional regulations are supplemental to the requirements herein and no modification of any applicable regulations shall result from this Planned Residential Development Overlay District, except where this ordinance has expressly modified such regulations by reference to the applicable provision authorizing such modification.

k. The developer/owner or other applicable party shall provide to each prospective buyer of a lot within this development an explanation of the environmental history of the area and site and the steps taken relative to the City-required, State-managed clean-up of the same, in a form acceptable to the City, for signature and return to the Department of Planning. Additionally, language shall be included on the plat(s) indicating these same considerations, with the subdivision's trust indentures/restrictions also containing this information about the site's environmental history and the steps taken to mitigate the property under State guidelines and standards for the clean-up of sites identified on the National Priorities List of the United States Environmental Protection Agency.

SWPPP STATEMENT:

Any land clearing, construction, or development involving the movement of earth shall be in accordance with the Storm Water Pollution Prevention Plan, and the person issued a Land Disturbance Permit assumes and acknowledges responsibility for compliance with The City of Wildwood Land Disturbance Code and the approved Storm Water Pollution Prevention Plan at the site of the permitted activity.

Wesley J. Byrne, Developer

Section Three. This ordinance shall be in full force and effect on and after its passage and approval.

This Bill was passed and approved this 30th day of November 2007 by the Council of the City of Wildwood, Missouri after having been read by title, or in full, two (2) times prior to passage.

Presiding Officer Edward L. Marshall, Mayor

ATTEST:

City Clerk

This plan was approved by the City of Wildwood's Planning and Zoning Commission in accordance with the provisions of Section 415.510 of the Zoning Code. This plan shall be developed under the conditions herein prescribed by Ordinance 1921 which was approved by the City Council of the City of Wildwood, Missouri on July 24, 2006.

Joe Vujnich, Director of Planning

Dec. 5, 2007

Lynne Greene-Beldner, City Clerk

In connection with a change in zoning for the following described property from N/U to R-1A.

A tract of land situated partly in the Southeast 1/4 of the Northeast 1/4 of Section 31, and partly in the Southwest 1/4 of the Northwest 1/4 of Section 32, Township 45 North, Range 4 East, St. Louis County, Missouri and described as follows:

Beginning at an old stone in the center line of Section 31 on the line between Sections 31 and 32; thence along the East-West center line of Section 31 South 89'42'00" West, a distance of 327.50 feet to the Southwest corner of property described in deed to Patricia V. and Gerald W. Primm, Trustees U/I, recorded in Book 8813, Page 2172, thence North 0'0'0" East, a distance of 20.00 feet to the North line of Strecker Road, 40 feet wide, thence along said North line of Strecker Road South 98'36'21" West, a distance of 208.71 feet to the East line of Strecker Farms Plot 1, per Plot Book 331, Pages 91 and 92; thence along East line of said Strecker Farms Plot 1, the following: North 0'0'0" East a distance of 625.62 feet, North 89'36'21" East, a distance of 208.71 feet and North 0'0'0" East, a distance of 686.36 feet to the South line of Turnberry Place Plat 2, per Plat Book 286, Page 88; thence along the South line of said Turnberry Place Plat 2 and the South line of Turnberry Place Plat 1, per Plat Book 283, Page 1 North 89'42'00" East, a distance of 327.50 feet, and North 89'08'00" East, a distance of 172.70 feet to the West line of Jerry Russell Bliss, recorded in Book 7451, Page 1135 and along the West line of David E. Krueger, recorded in Book 7959, Page 1413 South 0'0'0" East, a distance of 1,331.68 feet to the center line of Section 32; thence along the center line of Section 32 South 89'03'00" West, a distance of 175.45 feet to the point of beginning, and containing 18.3334 Acres, more or less.

Claymont Development LLC, the owner(s) of the property shown on this plan for and in consideration of being granted a permit to develop said property under the provisions of Section (applicable subsection) of the City's Zoning Code and the (present zoning), do hereby agree, declare, and covenant that from the date of recording of this plan, the property shall be developed only as shown herein.

On this 27th day of November 2007, before me personally appeared Wesley J. Byrne, to me personally known, who being by me duly sworn did say that he is President of Claymont Development LLC, a Limited Liability Company of the State of Missouri, and that said instrument was signed and sealed on behalf of said Limited Liability Company, and said Wesley J. Byrne acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have herewith set my hand and affixed my notarial seal the day and year first above written.

My Commission Expires: 12-5-07

SUSAN M. FISCHER, Notary Public

APPROVED 9-89 CITY OF WILDWOOD DEPARTMENT OF PLANNING SIGNED: Joe Vujnich DATE: 12-5-07

Notary Public Seal for Susan M. Fischer, Commission Expires 12/5/07

Notary Public Seal for Nicholas P. Overkamp, Commission Expires 07/31/2009

Notary Public Seal for Nicholas P. Overkamp, Commission Expires 07/31/2009

Notary Public Seal for Nicholas P. Overkamp, Commission Expires 07/31/2009

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All areas on this Site Development Plan identified as "Area to be preserved", shall be held in deed restricted private ownership which shall prohibit, in perpetuity, the development and/or subsequent subdivision of the resource protected property or their use for purposes inconsistent with the Intent of Section 1005.200 of the Wildwood Subdivision and Development Regulations of the City of Wildwood, as may be amended. These easements and deeds of covenants for all Resource Protected areas shall ensure to the benefit of, and may be enforced by, all lot owners of record of this subdivision and the City of Wildwood or its assignees.

This is to certify that during the month of January 2008, I prepared a report regarding the soils and natural resource evaluation of the subject property. The report and information contained on this plan relating to same is in compliance with Section 1005.200, "NATURAL RESOURCE PROTECTION STANDARDS AND PROCEDURES" of the City of Wildwood, Missouri

Soil Scientist

11-28-07

GEOTECHNICAL ENGINEER'S STATEMENT: These plans have been reviewed by SCI Engineering, Inc. for their compliance regarding geotechnical recommendations relative to site development. Based on this review and available subsurface information, it is our opinion that the site may be constructed in accordance with the plans, good construction practices, and the recommendations given in the geotechnical report dated May, 1999.

We have not prepared any part of these plans and my seal on these plans is intended only to confirm my personal review and approval to the site grading plan as it relates to the stability of the earth slopes.

SCI Engineering, Inc., must be involved during the construction phase of this project in order to determine if subsurface conditions relative to site grading are implemented, and that other geotechnical aspects of site development are performed in accordance with these plans.

SCI Engineering, Inc.

Professional Engineer Seal for Julian Leo Euren, Commission Expires 11/27/07

Enterprise Bank & Trust

STATE OF MISSOURI ) COUNTY OF )

On this 21st day of November 2007, before me personally appeared Nicholas P. Overkamp, to me personally known, who being by me duly sworn, did say he is Commercial Banking Officer of Enterprise Bank & Trust, a corporation of the State of Missouri, and that the seal affixed to the foregoing instrument is the seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said Nicholas P. Overkamp acknowledged said instrument to be the free act and deed of said corporation.

IN TESTIMONY WHEREOF, I have herewith set my hand and affixed my notarial seal the day and year above written.

My Commission Expires: 7/31/2009

Notary Public Seal for Nicholas P. Overkamp, Commission Expires 07/31/2009

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Table with 2 columns: ISSUE, REMARKS/DATE. Rows 1-10 listing various issues and dates.

Claymont Development, LLC 26 Pacland Estates Dr. Chesterfield, Missouri 63005 (636) 458-6155

STERLING CO. ENGINEERS & SURVEYORS 3056 NEW BALMARTINER ROAD ST. LOUIS, MISSOURI 63129 (314) 487-0440 FAX: 487-8944 E-Mail: Sterling@sterling-eng-survey.com

STERLING CO. ENGINEERS & SURVEYORS

PROJECT: Strecker Forest

DESIGNED: 98

CHECKED: 11

SHEET: 266

M.S.D. SHEET

P# 7.2

DIGITAL FILE LOCATION SERVER: STERLING-2

OF

BASE MAP 22-U